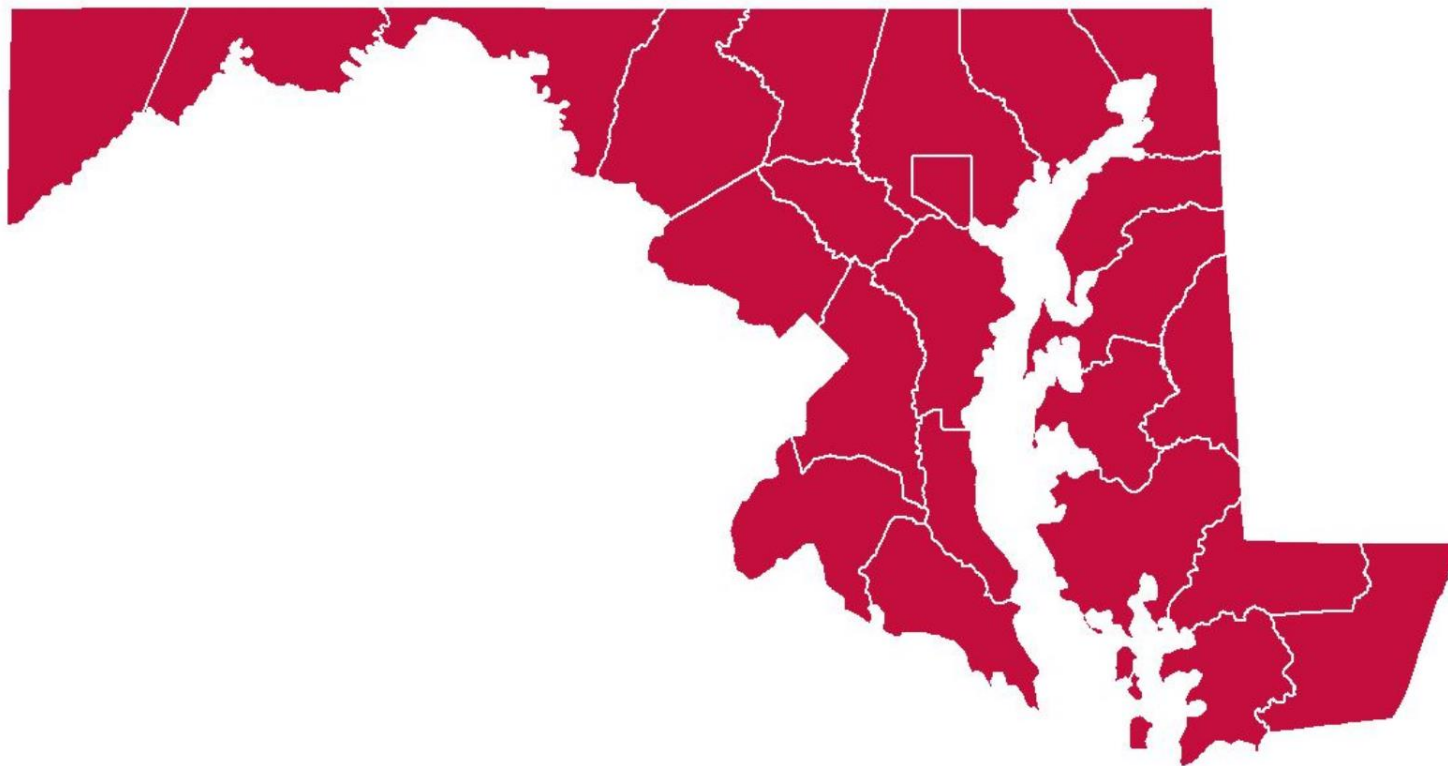


2018



Maryland Annual HIV Epidemiological Profile

Data reported through June 30, 2019



Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Prevention and Health Services Bureau
Prevention and Health Promotion Administration
<http://phpa.health.maryland.gov/OIDEOR/CHSE>
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Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that people living with HIV be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Physicians are required to report infants born to mothers living with HIV within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phone numbers, are available on our website: <https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx>

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for people that have been diagnosed with HIV by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2018. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of data. Data are only available for people receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

HIV Incidence: The most recent Centers for Disease Control and Prevention (CDC) estimate of the number of people living with undiagnosed HIV infection is 14.2 percent for the United States and 13.8 percent for Maryland in 2016. Using the CDC CD4 depletion model on Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 11.6 percent in 2017.

Maryland Residence: This epidemiological profile provides estimates of people living with diagnosed HIV in Maryland by their residence as of December 31, 2018. Residence at diagnosis and age at diagnosis are used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted to people for which there is a case report form or laboratory test reported since January 1, 2009. Restricting address data to recent years

presents the most accurate data available and helps to account for people that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes people that may still be residents of Maryland but have not received any HIV care during the most recent ten and a half years. In addition, residence is dynamic and people living with diagnosed HIV may have resided at multiple addresses that cannot all be represented in single time point estimates.

Maryland Residence – Correctional Facilities: People living with diagnosed HIV who were reported to be residing in a state or federal prison as of December 31, 2018 will be presented in the Maryland epidemiological profile only. For surveillance purposes, pre- or post-incarceration residential addresses are used for people living with diagnosed HIV who were incarcerated in local jails and detention centers. Individuals diagnosed or previously identified as residing in a correctional facility, whose most recent reported residential address indicates they were not residing in a state/federal correctional facility as of December 31, 2018, are included with estimates of people who are not incarcerated. The movement of persons between Maryland correctional facilities is not reflected in this report.

Gender Identity: This epidemiological profile describes gender expansive people that have been diagnosed with HIV by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2018. Historically, it has been difficult to fully present data by gender identity. Data on gender expansive people has been limited in the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS). No reliable system exists for collecting or reporting gender identity and some agencies do not collect or have complete data on gender identity. This report is likely underreporting the number gender expansive people living with diagnosed HIV because of challenges in accurately identifying and reporting gender identity in HIV surveillance.

Race/Ethnicity: The completeness of reporting for race/ethnicity is variable in surveillance data. Definitions of race/ethnicity categories may vary across agencies and some agencies do not collect or have complete data on race/ethnicity. This report may be overreporting the number of Multiracial people living with diagnosed HIV because of challenges in accurately identifying and reporting race/ethnicity in HIV surveillance.

Foreign-Born Maryland Residents: The completeness of reporting a person's country of birth is variable in surveillance data. Not all agencies collect or have complete data on nativity. In addition, some individuals may immigrate to the U.S. with HIV. HIV testing data from other countries is often unavailable for these people; therefore, they are counted as a new diagnosis following their first HIV related lab test in the United States, even if they were first diagnosed elsewhere.

Mortality: Mortality (death) data is presented in this epidemiological profile. Caution should be exercised when interpreting mortality estimates for recent years due to delays in reporting.

Viral Suppression: In this epidemiological profile, viral suppression is defined as the most recent viral load measured in the specified year of less than 200 copies per milliliter. Estimates of viral suppression among people living with diagnosed HIV are inclusive of people diagnosed in the specified year; therefore, they may not have had sufficient time to engage in HIV care and/or achieve viral suppression.

Changes in Terminology

The terminology for HIV and AIDS surveillance data was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and People Living with Diagnosed HIV replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and previously diagnosed individuals as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag, and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the

Reported HIV Diagnoses for 2018 are the total number of people diagnosed with HIV from January 1, 2018 to December 31, 2018, as reported by name through June 30, 2019.

To calculate the number of people living with diagnosed HIV, we count all reported diagnoses from the beginning of the epidemic (all new diagnoses each year) and subtract all reported deaths. For example, the total people living with diagnosed HIV on December 31, 2018 are the total reported HIV diagnoses not reported to have died as of December 31, 2018 as reported by name through June 30, 2019.

Stages of HIV Surveillance

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can contract HIV but never be screened for HIV and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the health department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

An instance of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9] but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV transmission [time point 1].

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An adult living with diagnosed HIV is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ is less than 14 percent. Viral load tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of viral load, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and viral load levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's eHARS, as of June 30, 2019.

Population data by sex, age, and race/ethnicity are from the July 1, 2018 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2017 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of people living with diagnosed HIV, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 people.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Exposure/risk data is not suppressed due to statistical adjustment resulting in the reporting of estimated or probable risk.

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who report a history of sexual contact with other men and report injection drug use constitutes a separate transmission category.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Male-to-male Sexual Contact (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Heterosexual Contact (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to be HIV positive or at increased risk for HIV transmission. Risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue, and artificial insemination.

Perinatal Exposure: Any baby born to a woman living with diagnosed HIV.

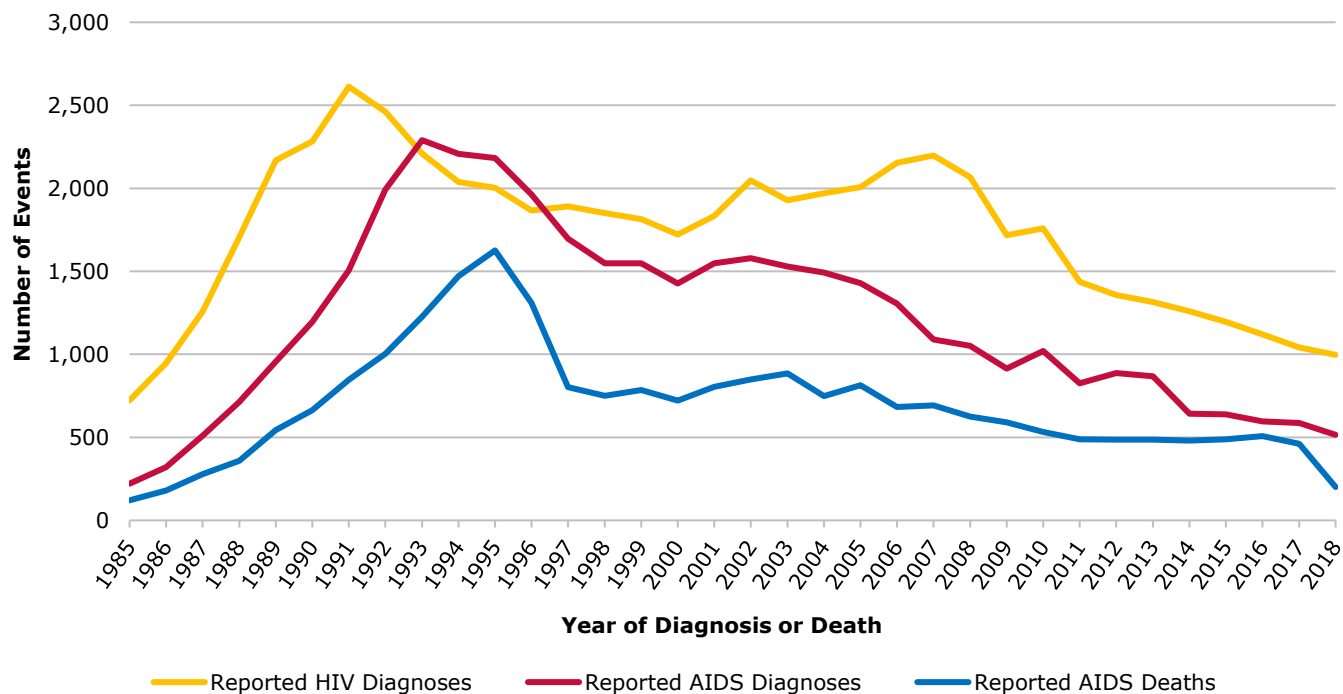
Other Exposure: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing in some instances. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual person as well as data in aggregate from other people living with diagnosed HIV in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates. Perinatal transmission and other exposure categories are never estimated or adjusted and depict the reported exposure category.

Section II – Trends 1985-2018

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, Among Residents at Diagnosis, 1985-2018, Reported through June 30, 2019

People Diagnosed with HIV (Reported HIV Diagnoses) by Year of HIV Diagnosis, People Diagnosed with HIV with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and People Diagnosed with HIV with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2018, as Reported through June 30, 2019

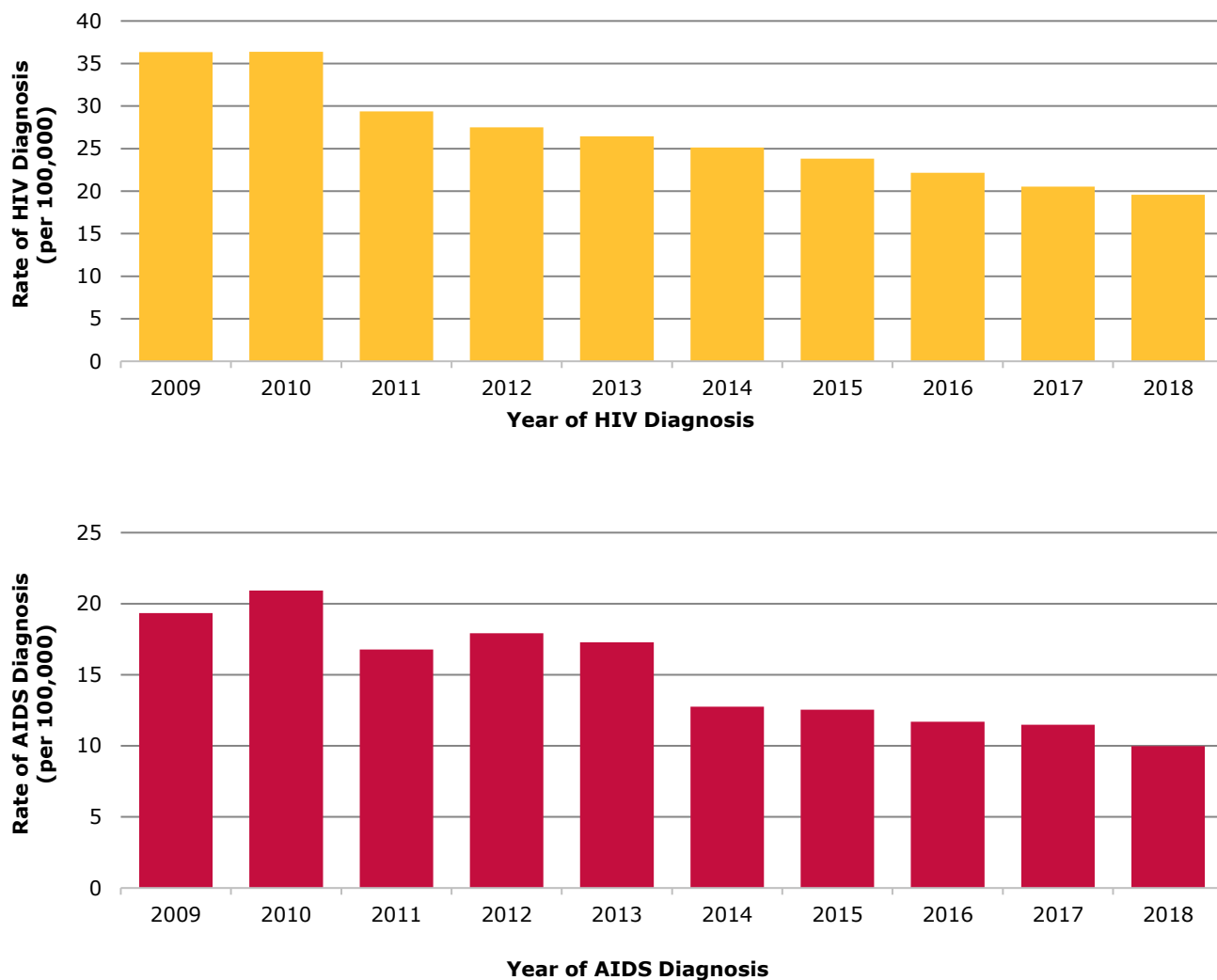


Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	382	148	72	2002	2,048	1,580	848
1985	723	221	121	2003	1,927	1,529	886
1986	947	320	180	2004	1,970	1,493	749
1987	1,257	509	279	2005	2,007	1,429	814
1988	1,706	713	359	2006	2,154	1,306	683
1989	2,168	957	544	2007	2,198	1,090	692
1990	2,283	1,195	663	2008	2,066	1,052	625
1991	2,612	1,505	847	2009	1,718	915	590
1992	2,462	1,992	1,002	2010	1,759	1,020	533
1993	2,209	2,290	1,226	2011	1,436	825	488
1994	2,037	2,207	1,471	2012	1,357	887	487
1995	2,004	2,182	1,626	2013	1,315	868	486
1996	1,867	1,962	1,310	2014	1,260	642	480
1997	1,892	1,697	803	2015	1,196	639	489
1998	1,851	1,548	751	2016	1,121	596	508
1999	1,815	1,548	786	2017*	1,042	586	461
2000	1,721	1,426	721	2018*	997	516	202
2001	1,833	1,549	804	Total	59,340	40,942	23,586

*2017-2018 reported AIDS deaths are preliminary

Figure 1A – Trends in Rates of Reported HIV and AIDS Diagnoses, Among Residents at Diagnosis Aged 13+, 2009-2018, Reported through June 30, 2019

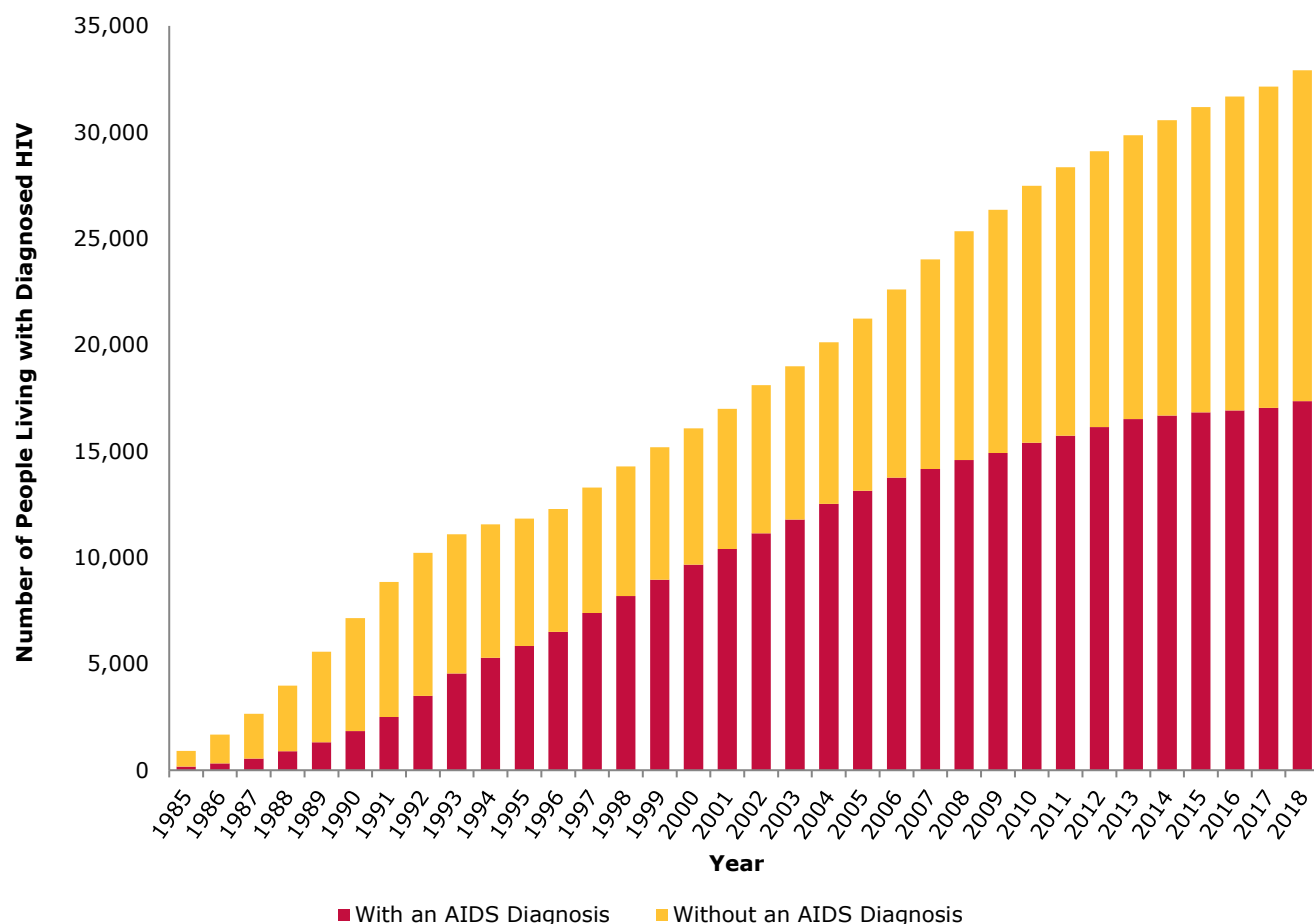
Rates of Reported HIV and AIDS Diagnoses, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 2009 through 2018, as Reported through June 30, 2019



Year of Diagnosis	Population Age 13+	Reported Diagnoses Among People Aged 13+			
		HIV Diagnoses		AIDS Diagnoses	
		Number	Rate	Number	Rate
2009	4,699,805	1,708	36.3	909	19.3
2010	4,829,284	1,756	36.4	1,011	20.9
2011	4,877,786	1,432	29.4	818	16.8
2012	4,924,007	1,354	27.5	882	17.9
2013	4,960,166	1,312	26.5	857	17.3
2014	4,991,196	1,254	25.1	637	12.8
2015	5,020,816	1,196	23.8	630	12.5
2016	5,039,731	1,117	22.2	589	11.7
2017	5,061,027	1,039	20.5	581	11.5
2018	5,080,666	994	19.6	507	10.2

Figure 2 – Trends in People Living with Diagnosed HIV, Among Residents at Diagnosis, 1985-2018, Reported through June 30, 2019

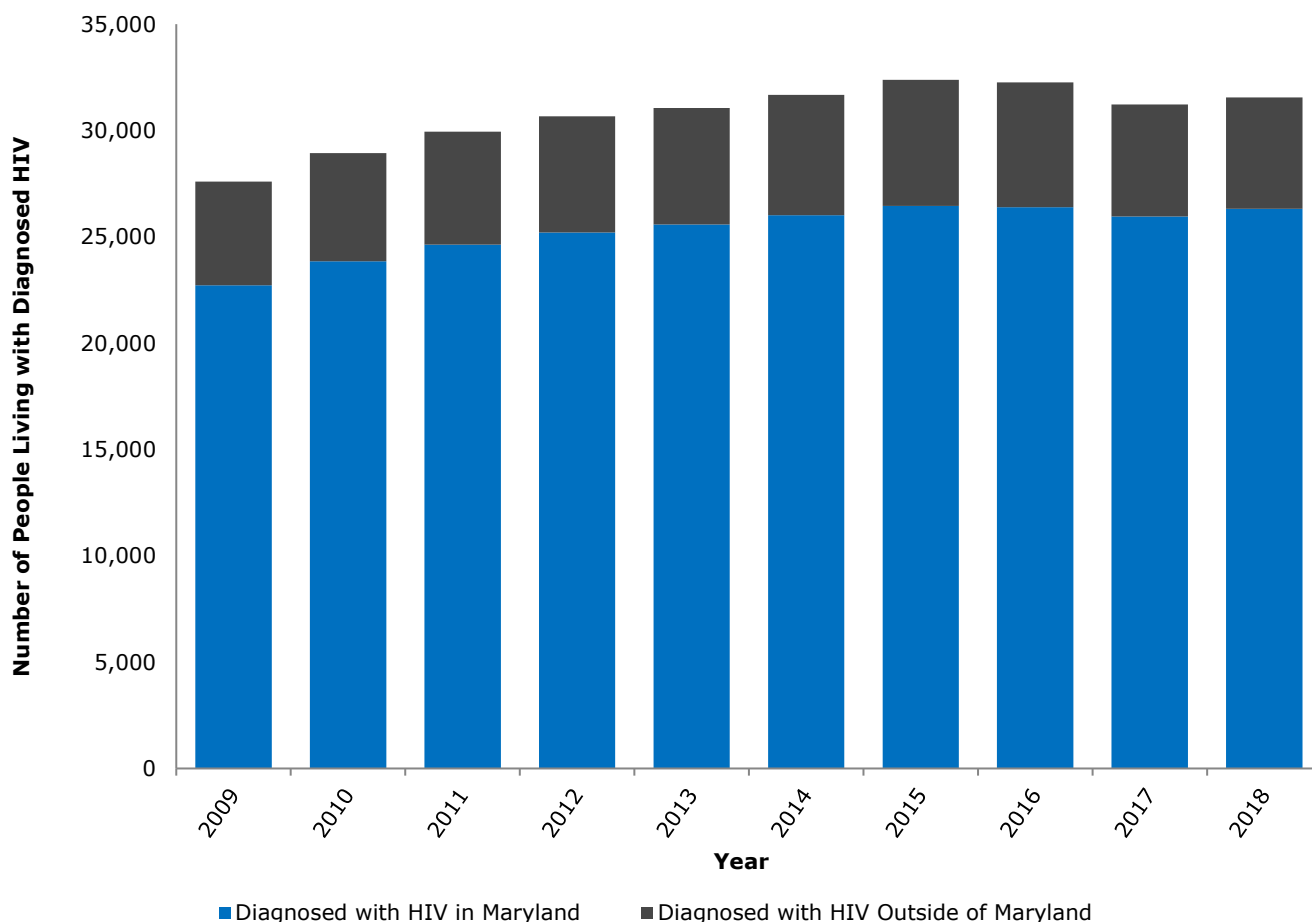
People Living with Diagnosed HIV and Not Reported to have Died as of December 31st of Each Year (People Living with Diagnosed HIV without an AIDS Diagnosis, People Living with Diagnosed HIV with an AIDS Diagnosis, and Total People Living with Diagnosed HIV) from 1985 through 2018, as Reported through June 30, 2019



People Living with Diagnosed HIV				People Living with Diagnosed HIV			
Year	without an AIDS Diagnosis	with an AIDS Diagnosis	Total	Year	without an AIDS Diagnosis	with an AIDS Diagnosis	Total
1985	738	175	913	2002	6,964	11,137	18,101
1986	1,358	315	1,673	2003	7,215	11,780	18,995
1987	2,104	546	2,650	2004	7,602	12,524	20,126
1988	3,079	900	3,979	2005	8,101	13,139	21,240
1989	4,253	1,313	5,566	2006	8,846	13,762	22,608
1990	5,308	1,845	7,153	2007	9,861	14,160	24,021
1991	6,352	2,503	8,855	2008	10,757	14,587	25,344
1992	6,734	3,493	10,227	2009	11,437	14,912	26,349
1993	6,534	4,557	11,091	2010	12,087	15,399	27,486
1994	6,273	5,294	11,567	2011	12,613	15,736	28,349
1995	5,990	5,850	11,840	2012	12,978	16,136	29,114
1996	5,789	6,502	12,291	2013	13,344	16,518	29,862
1997	5,898	7,396	13,294	2014	13,885	16,680	30,565
1998	6,094	8,193	14,287	2015	14,349	16,830	31,179
1999	6,229	8,955	15,184	2016	14,769	16,918	31,687
2000	6,417	9,660	16,077	2017	15,105	17,043	32,148
2001	6,596	10,405	17,001	2018	15,558	17,357	32,915

Figure 3 – Trends in People Aged 13+ Living with Diagnosed HIV, Among Current Residents, 2009-2018, Reported through June 30, 2019

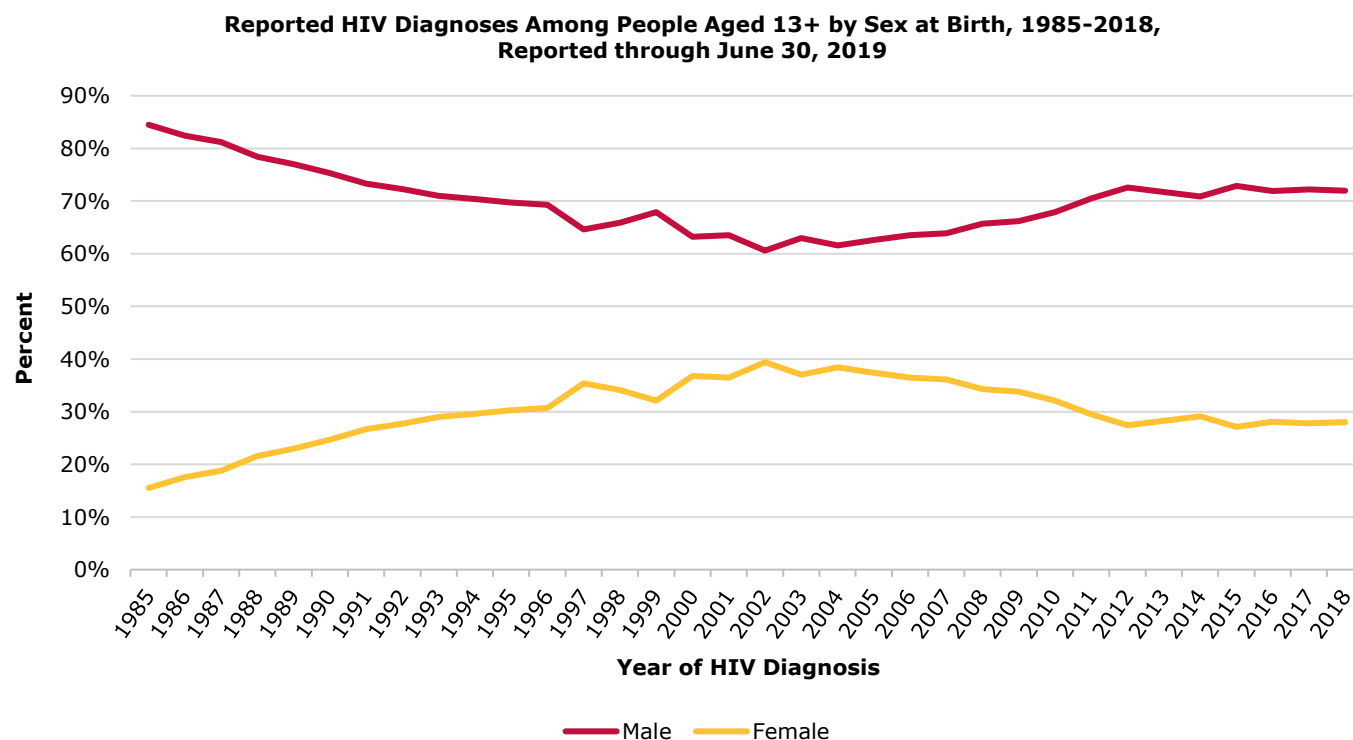
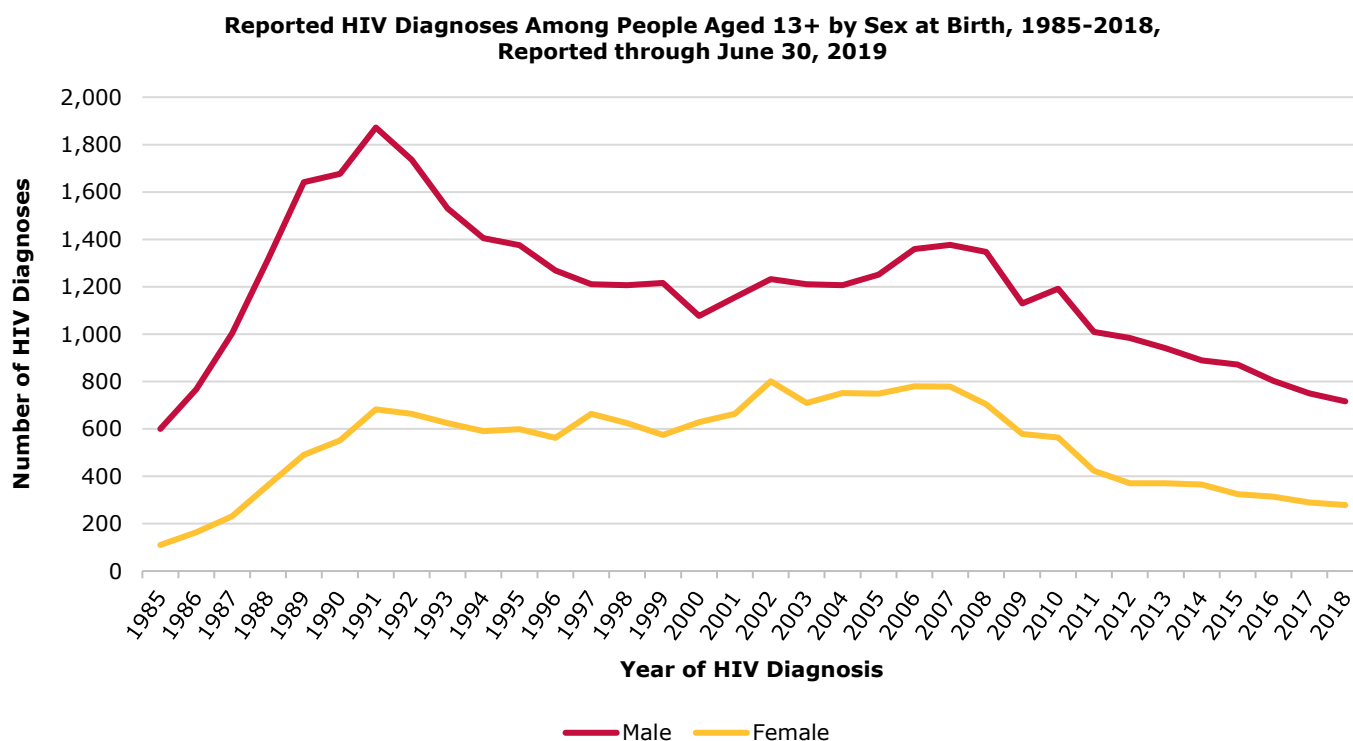
People Living with Diagnosed HIV in Maryland and Not Reported to have Died as of December 31st of Each Year from 2009 through 2018, as Reported through June 30, 2019



Year	Population Age 13+	Maryland Residents Aged 13+ as of December 31st of the Specified Year			
		Diagnosed with HIV in Maryland	Diagnosed with HIV Outside of Maryland	Total	Rate
2009	4,699,805	22,716	4,874	27,590	587.0
2010	4,829,284	23,848	5,086	28,934	599.1
2011	4,877,786	24,631	5,318	29,949	614.0
2012	4,924,007	25,211	5,453	30,664	622.7
2013	4,960,166	25,578	5,483	31,061	626.2
2014	4,991,196	26,017	5,651	31,668	634.5
2015	5,020,816	26,449	5,937	32,386	645.0
2016	5,039,731	26,392	5,866	32,258	640.1
2017	5,061,027	25,958	5,266	31,224	616.9
2018	5,080,666	26,324	5,235	31,559	621.2

Figure 4 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Sex at Birth, 1985-2018, Reported through June 30, 2019

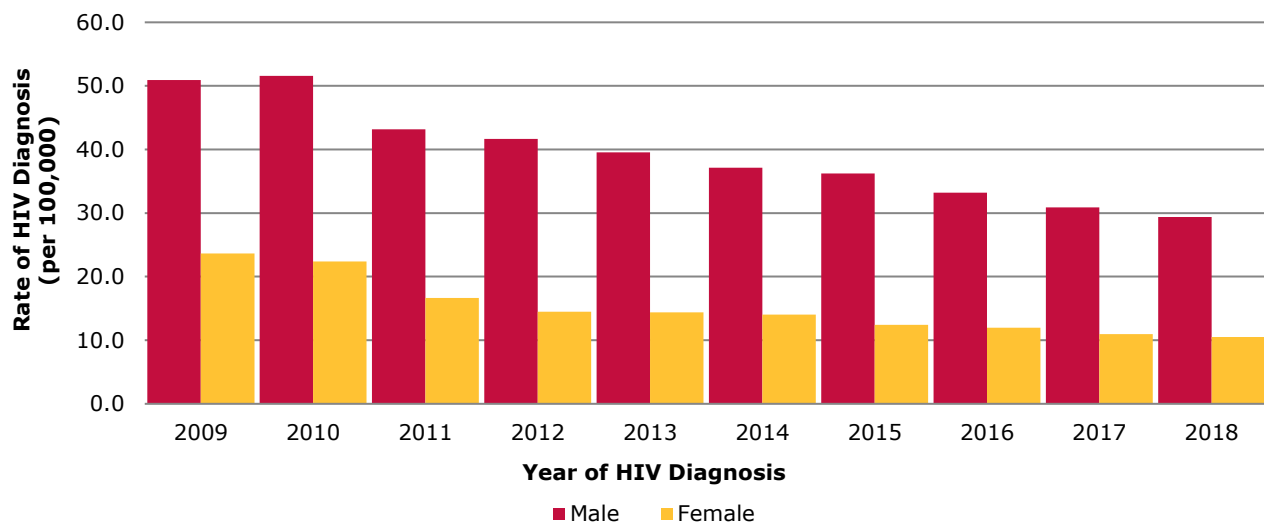
Number and Percent by Sex at Birth of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019



Reported HIV Diagnoses Among People Aged 13+					
Year of HIV Diagnosis	Number	Sex at Birth			
		Male		Female	
		Number	Percent	Number	Percent
<1985	378	335	88.6%	43	11.4%
1985	710	600	84.5%	110	15.5%
1986	932	768	82.4%	164	17.6%
1987	1,236	1,004	81.2%	232	18.8%
1988	1,678	1,316	78.4%	362	21.6%
1989	2,131	1,641	77.0%	490	23.0%
1990	2,228	1,677	75.3%	551	24.7%
1991	2,555	1,872	73.3%	683	26.7%
1992	2,400	1,736	72.3%	664	27.7%
1993	2,154	1,530	71.0%	624	29.0%
1994	1,996	1,405	70.4%	591	29.6%
1995	1,975	1,376	69.7%	599	30.3%
1996	1,831	1,269	69.3%	562	30.7%
1997	1,874	1,210	64.6%	664	35.4%
1998	1,831	1,206	65.9%	625	34.1%
1999	1,791	1,216	67.9%	575	32.1%
2000	1,705	1,077	63.2%	628	36.8%
2001	1,819	1,155	63.5%	664	36.5%
2002	2,033	1,232	60.6%	801	39.4%
2003	1,921	1,211	63.0%	710	37.0%
2004	1,959	1,207	61.6%	752	38.4%
2005	1,999	1,251	62.6%	748	37.4%
2006	2,139	1,359	63.5%	780	36.5%
2007	2,155	1,377	63.9%	778	36.1%
2008	2,051	1,347	65.7%	704	34.3%
2009	1,708	1,130	66.2%	578	33.8%
2010	1,756	1,192	67.9%	564	32.1%
2011	1,432	1,009	70.5%	423	29.5%
2012	1,354	983	72.6%	371	27.4%
2013	1,312	941	71.7%	371	28.3%
2014	1,254	889	70.9%	365	29.1%
2015	1,196	872	72.9%	324	27.1%
2016	1,117	803	71.9%	314	28.1%
2017	1,039	750	72.2%	289	27.8%
2018	994	716	72.0%	278	28.0%
Total	58,643	40,662	69.3%	17,981	30.7%

Figure 4A – Trends in Rates of Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Sex at Birth, 2009-2018, Reported through June 30, 2019

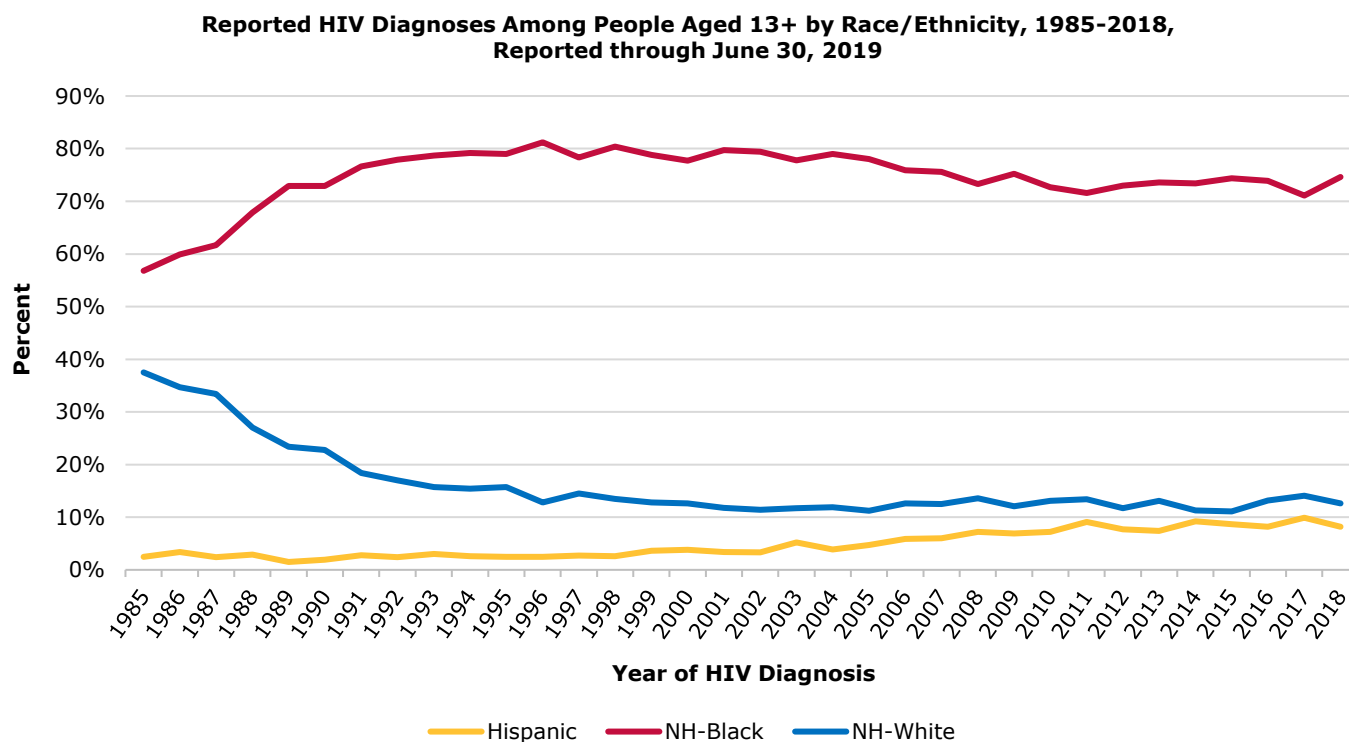
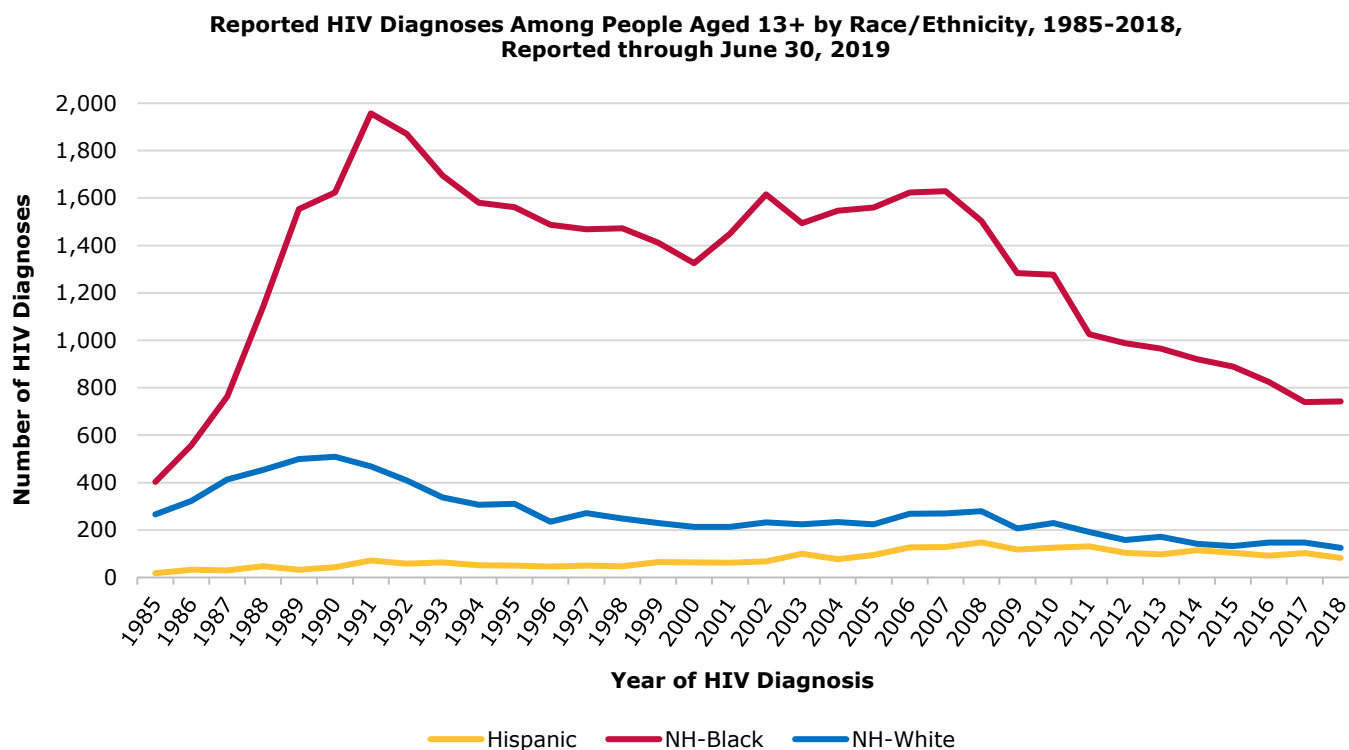
Rate by Sex at Birth of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 2009 through 2018, as Reported through June 30, 2019



Year of HIV Diagnosis	Number of HIV Diagnoses		Sex at Birth	
			Male	Female
2009	1,708	Population	2,219,919	2,442,191
		Reported Diagnoses	1,130	578
		Rate	50.9	23.7
2010	1,756	Population	2,311,027	2,518,257
		Reported Diagnoses	1,192	564
		Rate	51.6	22.4
2011	1,432	Population	2,336,248	2,541,538
		Reported Diagnoses	1,009	423
		Rate	43.2	16.6
2012	1,354	Population	2,360,540	2,563,468
		Reported Diagnoses	983	371
		Rate	41.6	14.5
2013	1,312	Population	2,378,889	2,581,277
		Reported Diagnoses	941	371
		Rate	39.6	14.4
2014	1,254	Population	2,393,704	2,597,493
		Reported Diagnoses	889	365
		Rate	37.1	14.1
2015	1,196	Population	2,408,624	2,612,192
		Reported Diagnoses	872	324
		Rate	36.2	12.4
2016	1,117	Population	2,418,551	2,621,181
		Reported Diagnoses	803	314
		Rate	33.2	12.0
2017	1,039	Population	2,429,055	2,631,972
		Reported Diagnoses	750	289
		Rate	30.9	11.0
2018	994	Population	2,437,974	2,642,693
		Reported Diagnoses	716	278
		Rate	29.4	10.5

Figure 5 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Race/Ethnicity, 1985-2018, Reported through June 30, 2019

Number and Percent by Race/Ethnicity of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019

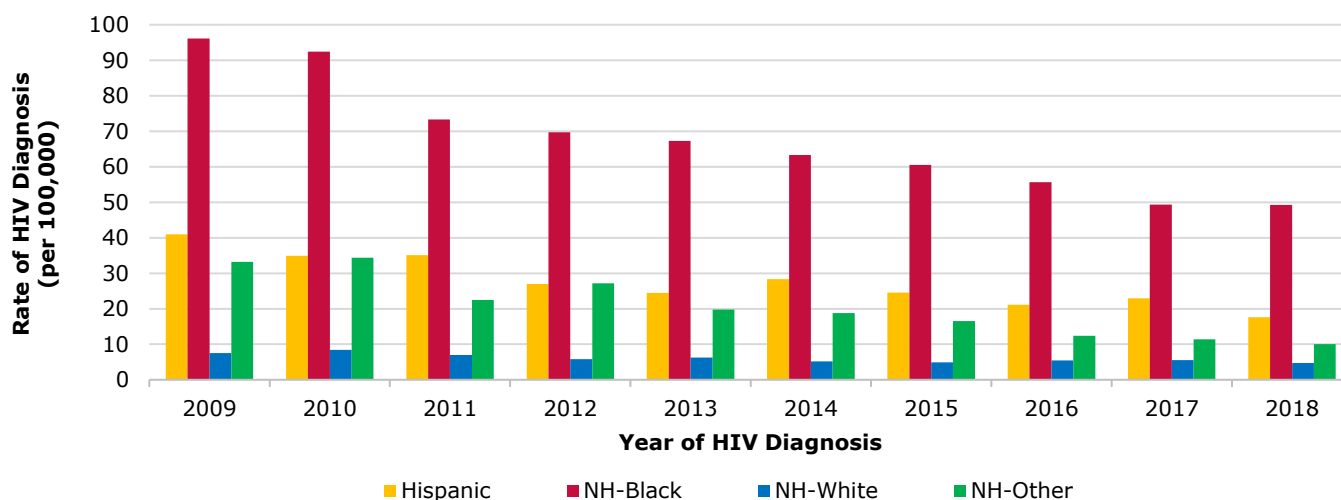


Non-Hispanic Other race not shown

Reported HIV Diagnoses Among People Aged 13+									
Year of HIV Diagnosis	No.	Race/Ethnicity							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	378	11	2.9%	211	55.8%	142	37.6%	14	3.7%
1985	710	18	2.5%	403	56.8%	266	37.5%	23	3.2%
1986	932	32	3.4%	558	59.9%	323	34.7%	19	2.0%
1987	1,236	30	2.4%	762	61.7%	413	33.4%	31	2.5%
1988	1,678	48	2.9%	1,140	67.9%	453	27.0%	37	2.2%
1989	2,131	32	1.5%	1,553	72.9%	499	23.4%	47	2.2%
1990	2,228	43	1.9%	1,624	72.9%	509	22.8%	52	2.3%
1991	2,555	71	2.8%	1,957	76.6%	469	18.4%	58	2.3%
1992	2,400	58	2.4%	1,870	77.9%	409	17.0%	63	2.6%
1993	2,154	64	3.0%	1,695	78.7%	338	15.7%	57	2.6%
1994	1,996	52	2.6%	1,580	79.2%	307	15.4%	57	2.9%
1995	1,975	50	2.5%	1,561	79.0%	311	15.7%	53	2.7%
1996	1,831	46	2.5%	1,487	81.2%	235	12.8%	63	3.4%
1997	1,874	50	2.7%	1,468	78.3%	271	14.5%	85	4.5%
1998	1,831	47	2.6%	1,473	80.4%	248	13.5%	63	3.4%
1999	1,791	65	3.6%	1,412	78.8%	229	12.8%	85	4.7%
2000	1,705	64	3.8%	1,325	77.7%	214	12.6%	102	6.0%
2001	1,819	62	3.4%	1,449	79.7%	214	11.8%	94	5.2%
2002	2,033	67	3.3%	1,615	79.4%	232	11.4%	119	5.9%
2003	1,921	100	5.2%	1,494	77.8%	224	11.7%	103	5.4%
2004	1,959	77	3.9%	1,547	79.0%	233	11.9%	102	5.2%
2005	1,999	94	4.7%	1,560	78.0%	224	11.2%	121	6.1%
2006	2,139	127	5.9%	1,624	75.9%	269	12.6%	119	5.6%
2007	2,155	129	6.0%	1,629	75.6%	270	12.5%	127	5.9%
2008	2,051	148	7.2%	1,504	73.3%	279	13.6%	120	5.9%
2009	1,708	117	6.9%	1,284	75.2%	207	12.1%	100	5.9%
2010	1,756	126	7.2%	1,277	72.7%	230	13.1%	123	7.0%
2011	1,432	131	9.1%	1,026	71.6%	192	13.4%	83	5.8%
2012	1,354	104	7.7%	988	73.0%	158	11.7%	104	7.7%
2013	1,312	97	7.4%	965	73.6%	172	13.1%	78	5.9%
2014	1,254	115	9.2%	920	73.4%	142	11.3%	77	6.1%
2015	1,196	104	8.7%	890	74.4%	133	11.1%	69	5.8%
2016	1,117	92	8.2%	825	73.9%	147	13.2%	53	4.7%
2017	1,039	103	9.9%	739	71.1%	147	14.1%	50	4.8%
2018	994	82	8.2%	742	74.6%	125	12.6%	45	4.5%
Total	58,643	2,656	4.5%	44,157	75.3%	9,234	15.7%	2,596	4.4%

Figure 5A – Trends in Rates of Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Race/Ethnicity, 2009-2018, Reported through June 30, 2019

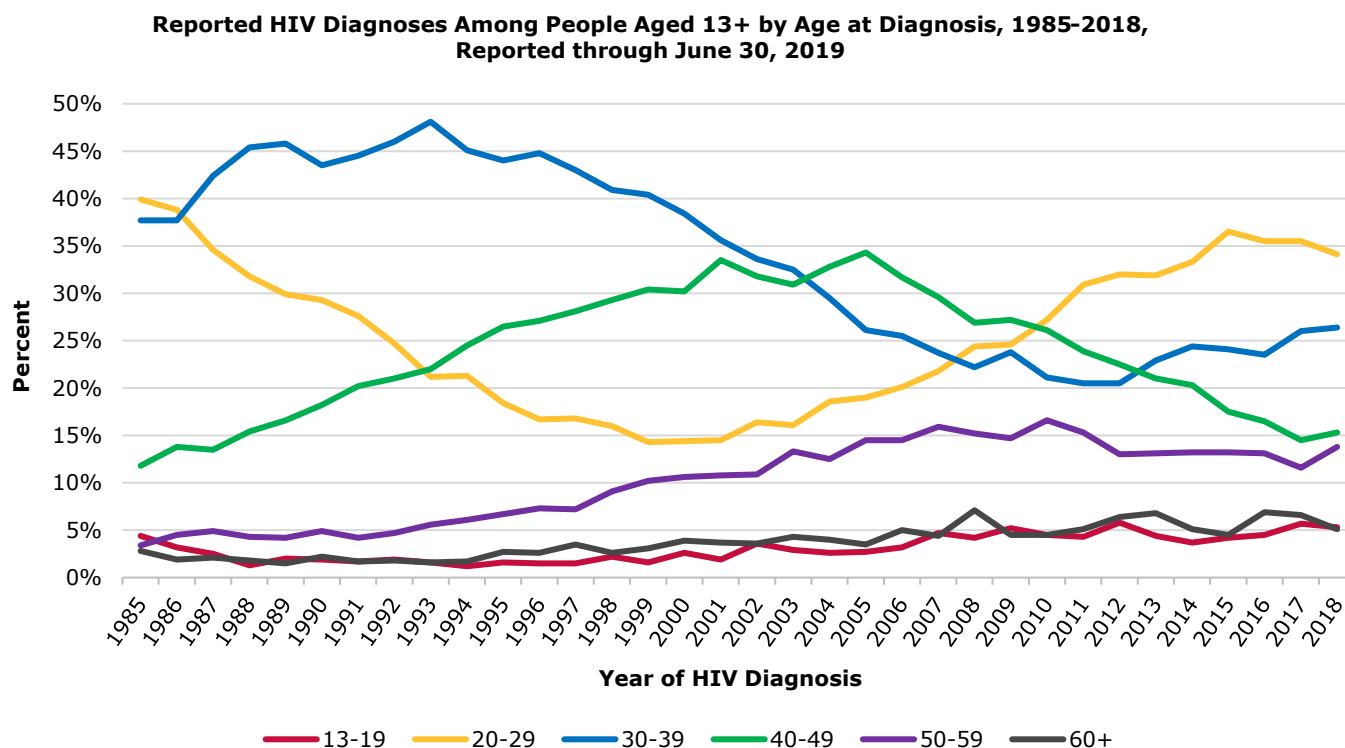
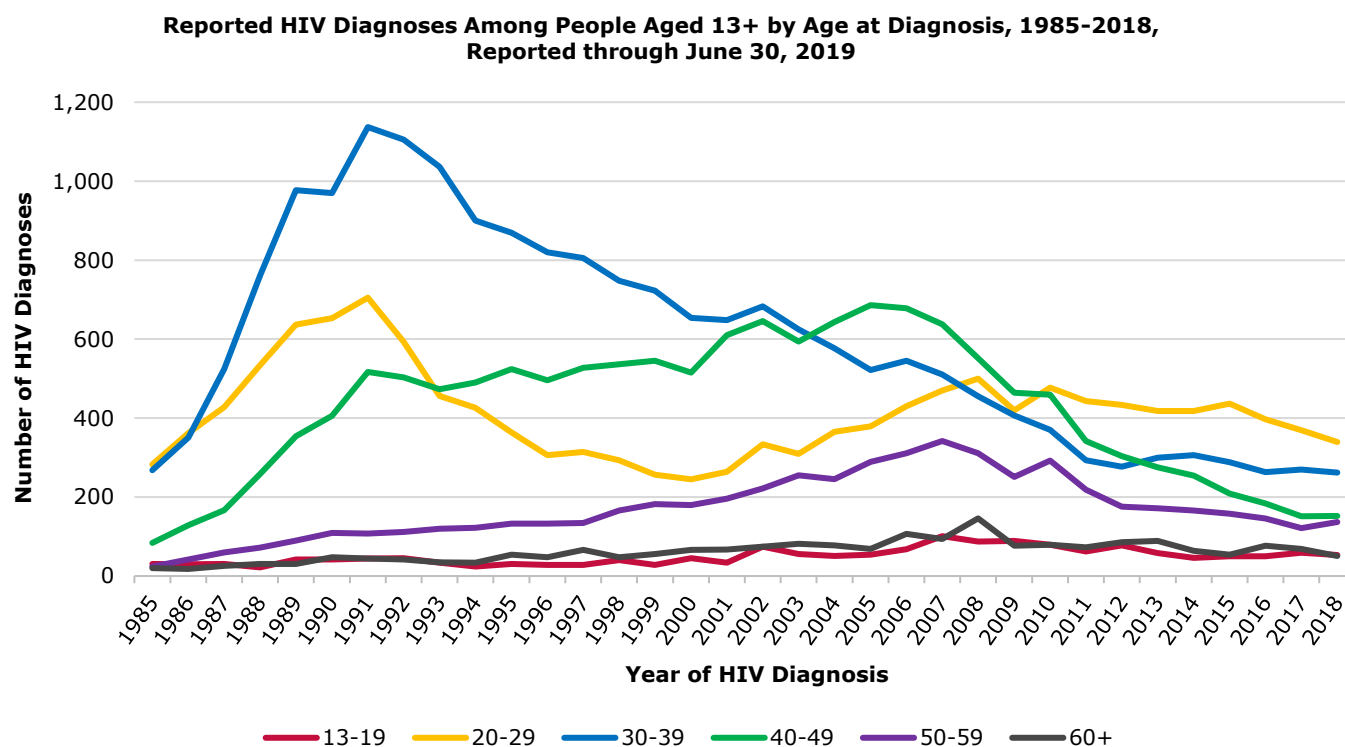
Rate by Race/Ethnicity of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 2009 through 2018, as Reported through June 30, 2019



Year of HIV Diagnosis	Number of HIV Diagnoses	Race/Ethnicity				
			Hispanic	Non-Hispanic Black	Non-Hispanic White	Non-Hispanic Other Race
2009	1,708	Population	285,931	1,336,116	2,769,180	301,040
		Reported Diagnoses	117	1,284	207	100
		Rate	40.9	96.1	7.5	33.2
2010	1,756	Population	360,856	1,381,325	2,729,620	357,483
		Reported Diagnoses	126	1,277	230	123
		Rate	34.9	92.4	8.4	34.4
2011	1,432	Population	372,828	1,400,131	2,734,889	369,938
		Reported Diagnoses	131	1,026	192	83
		Rate	35.1	73.3	7.0	22.4
2012	1,354	Population	385,054	1,418,028	2,738,446	382,479
		Reported Diagnoses	104	988	158	104
		Rate	27.0	69.7	5.8	27.2
2013	1,312	Population	396,729	1,435,268	2,734,426	393,743
		Reported Diagnoses	97	965	172	78
		Rate	24.4	67.2	6.3	19.8
2014	1,254	Population	405,287	1,452,520	2,723,985	409,404
		Reported Diagnoses	115	920	142	77
		Rate	28.4	63.3	5.2	18.8
2015	1,196	Population	422,961	1,469,899	2,710,198	417,758
		Reported Diagnoses	104	890	133	69
		Rate	24.6	60.5	4.9	16.5
2016	1,117	Population	435,679	1,483,445	2,692,762	427,846
		Reported Diagnoses	92	825	147	53
		Rate	21.1	55.6	5.5	12.4
2017	1,039	Population	449,934	1,496,759	2,675,396	438,938
		Reported Diagnoses	103	739	147	50
		Rate	22.9	49.4	5.5	11.4
2018	994	Population	465,711	1,507,995	2,658,002	448,959
		Reported Diagnoses	82	742	125	45
		Rate	17.6	49.2	4.7	10.0

Figure 6 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, 1985-2018, Reported through June 30, 2019

Number and Percent by Age at HIV Diagnosis of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019

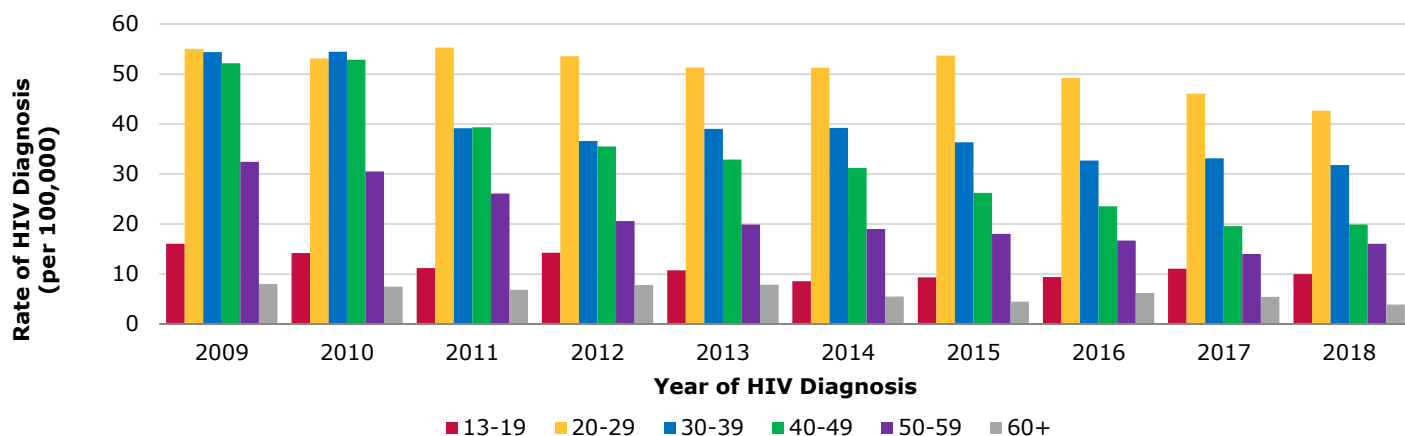


Reported HIV Diagnoses Among People Aged 13+

Year of HIV Diagnosis	No.	Age at HIV Diagnosis											
		13-19		20-29		30-39		40-49		50-59		60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	378	33	8.7%	154	40.7%	114	30.2%	54	14.3%	19	5.0%	4	1.1%
1985	710	31	4.4%	283	39.9%	268	37.7%	84	11.8%	24	3.4%	20	2.8%
1986	932	30	3.2%	362	38.8%	351	37.7%	129	13.8%	42	4.5%	18	1.9%
1987	1,236	31	2.5%	428	34.6%	524	42.4%	167	13.5%	60	4.9%	26	2.1%
1988	1,678	22	1.3%	534	31.8%	761	45.4%	258	15.4%	72	4.3%	31	1.8%
1989	2,131	42	2.0%	637	29.9%	977	45.8%	354	16.6%	90	4.2%	31	1.5%
1990	2,228	42	1.9%	653	29.3%	970	43.5%	406	18.2%	109	4.9%	48	2.2%
1991	2,555	44	1.7%	705	27.6%	1,137	44.5%	517	20.2%	108	4.2%	44	1.7%
1992	2,400	45	1.9%	593	24.7%	1,105	46.0%	503	21.0%	112	4.7%	42	1.8%
1993	2,154	34	1.6%	456	21.2%	1,036	48.1%	473	22.0%	120	5.6%	35	1.6%
1994	1,996	24	1.2%	426	21.3%	900	45.1%	490	24.5%	122	6.1%	34	1.7%
1995	1,975	31	1.6%	364	18.4%	869	44.0%	524	26.5%	133	6.7%	54	2.7%
1996	1,831	28	1.5%	306	16.7%	820	44.8%	496	27.1%	133	7.3%	48	2.6%
1997	1,874	28	1.5%	314	16.8%	805	43.0%	527	28.1%	134	7.2%	66	3.5%
1998	1,831	40	2.2%	293	16.0%	748	40.9%	536	29.3%	166	9.1%	48	2.6%
1999	1,791	28	1.6%	257	14.3%	723	40.4%	545	30.4%	182	10.2%	56	3.1%
2000	1,705	45	2.6%	245	14.4%	654	38.4%	515	30.2%	180	10.6%	66	3.9%
2001	1,819	34	1.9%	264	14.5%	648	35.6%	610	33.5%	196	10.8%	67	3.7%
2002	2,033	74	3.6%	334	16.4%	683	33.6%	646	31.8%	222	10.9%	74	3.6%
2003	1,921	56	2.9%	309	16.1%	625	32.5%	594	30.9%	255	13.3%	82	4.3%
2004	1,959	51	2.6%	365	18.6%	577	29.5%	643	32.8%	245	12.5%	78	4.0%
2005	1,999	54	2.7%	379	19.0%	522	26.1%	686	34.3%	289	14.5%	69	3.5%
2006	2,139	68	3.2%	430	20.1%	545	25.5%	678	31.7%	311	14.5%	107	5.0%
2007	2,155	101	4.7%	470	21.8%	510	23.7%	638	29.6%	342	15.9%	94	4.4%
2008	2,051	87	4.2%	500	24.4%	455	22.2%	552	26.9%	311	15.2%	146	7.1%
2009	1,708	89	5.2%	420	24.6%	407	23.8%	464	27.2%	251	14.7%	77	4.5%
2010	1,756	79	4.5%	477	27.2%	370	21.1%	459	26.1%	292	16.6%	79	4.5%
2011	1,432	62	4.3%	443	30.9%	293	20.5%	342	23.9%	219	15.3%	73	5.1%
2012	1,354	78	5.8%	433	32.0%	277	20.5%	304	22.5%	176	13.0%	86	6.4%
2013	1,312	58	4.4%	418	31.9%	300	22.9%	275	21.0%	172	13.1%	89	6.8%
2014	1,254	46	3.7%	418	33.3%	306	24.4%	254	20.3%	166	13.2%	64	5.1%
2015	1,196	50	4.2%	437	36.5%	288	24.1%	209	17.5%	158	13.2%	54	4.5%
2016	1,117	50	4.5%	397	35.5%	263	23.5%	184	16.5%	146	13.1%	77	6.9%
2017	1,039	59	5.7%	369	35.5%	270	26.0%	151	14.5%	121	11.6%	69	6.6%
2018	994	53	5.3%	339	34.1%	262	26.4%	152	15.3%	137	13.8%	51	5.1%
Total	58,643	1,727	2.9%	14,212	24.2%	20,363	34.7%	14,419	24.6%	5,815	9.9%	2,107	3.6%

Figure 6A – Trends in Rates of Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Age at Diagnosis, 2009-2018, Reported through June 30, 2019

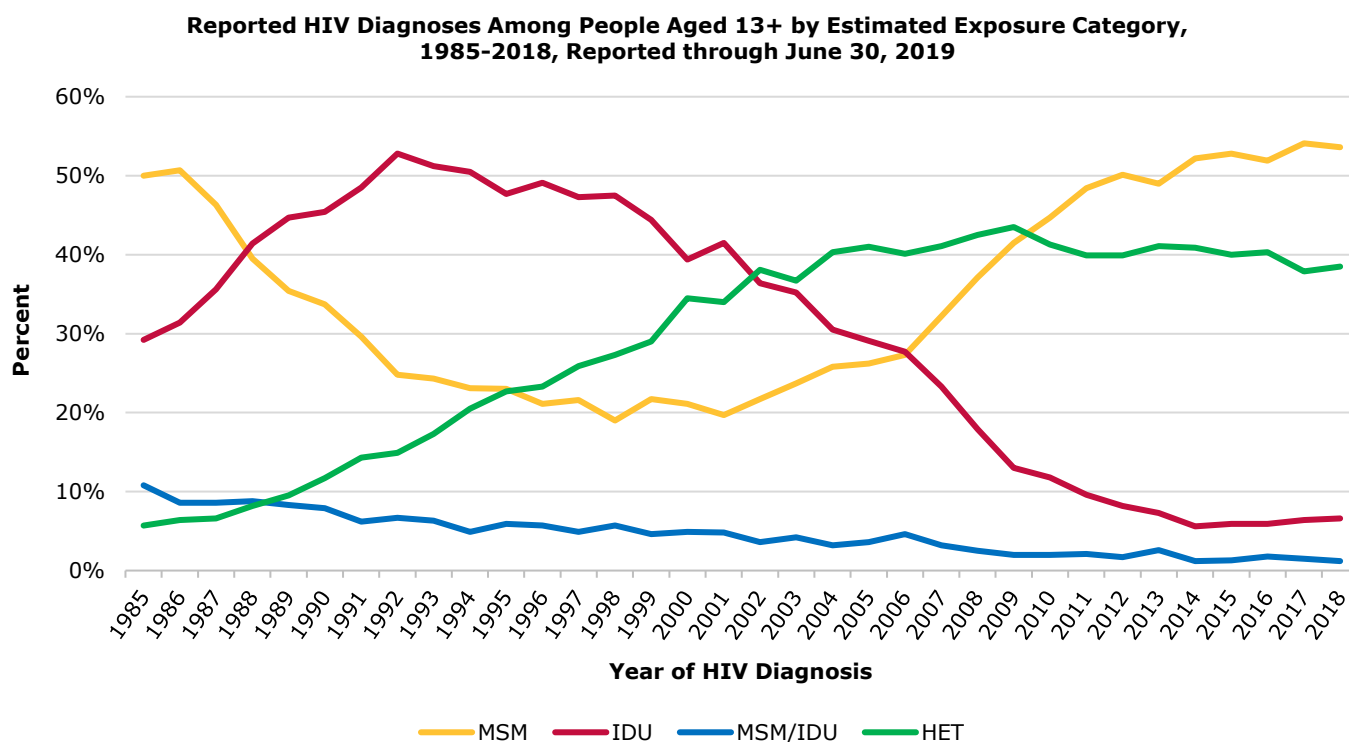
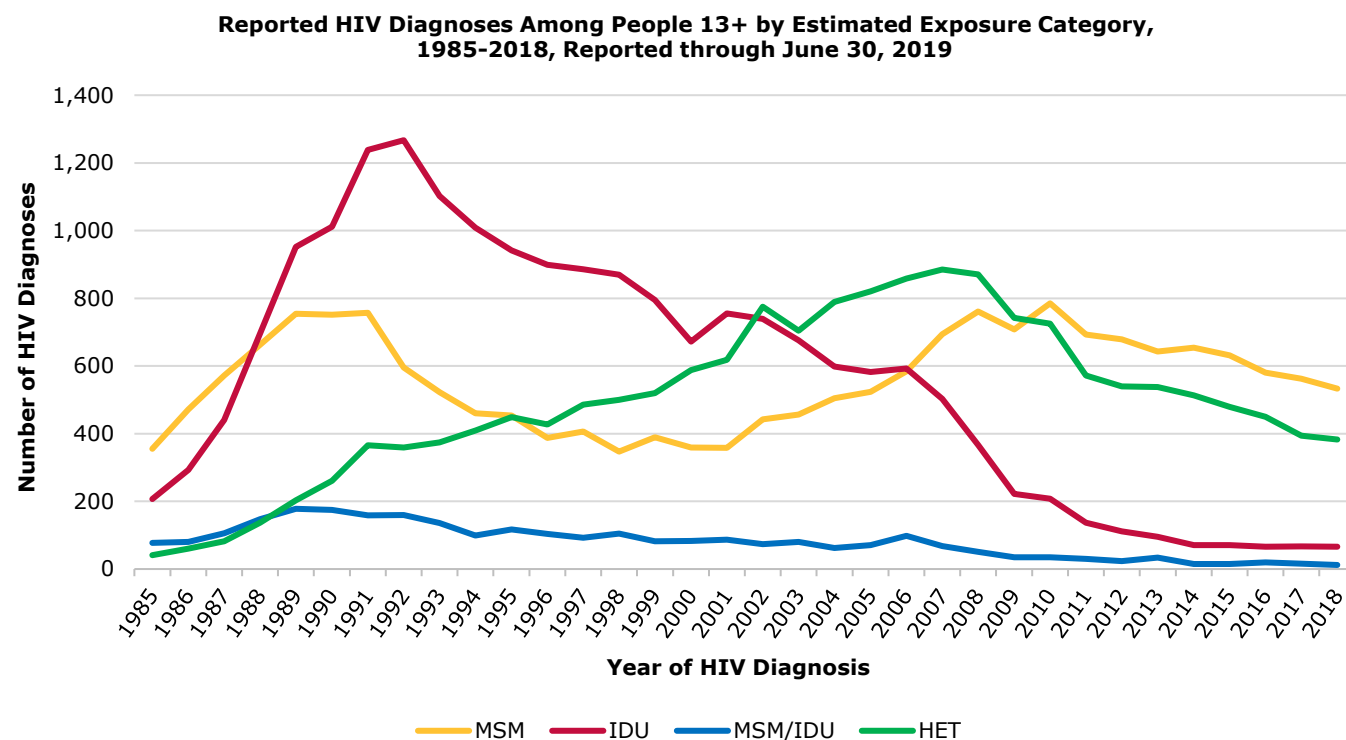
Rate by Age at HIV Diagnosis of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 2009 through 2018, as Reported through June 30, 2019



Year of HIV Diagnosis	Number of HIV Diagnoses	Age at HIV Diagnosis						
			13-19	20-29	30-39	40-49	50-59	60+
2009	1,708	Population	553,855	763,450	748,586	889,690	773,153	963,533
		Reported Diagnoses	89	420	407	464	251	77
		Rate	16.1	55.0	54.4	52.2	32.5	8.0
2010	1,698	Population	557,355	790,677	747,128	878,017	823,132	1,032,975
		Reported Diagnoses	79	420	407	464	251	77
		Rate	14.2	53.1	54.5	52.8	30.5	7.5
2011	1,432	Population	554,054	801,210	748,052	868,581	839,856	1,066,033
		Reported Diagnoses	62	443	293	342	219	73
		Rate	11.2	55.3	39.2	39.4	26.1	6.8
2012	1,354	Population	547,765	808,639	756,426	856,555	854,489	1,100,133
		Reported Diagnoses	78	433	277	304	176	86
		Rate	14.2	53.5	36.6	35.5	20.6	7.8
2013	1,312	Population	541,347	814,256	768,133	837,037	865,554	1,133,839
		Reported Diagnoses	58	418	300	275	172	89
		Rate	10.7	51.3	39.1	32.9	19.9	7.8
2014	1,254	Population	536,877	816,094	780,091	814,114	874,562	1,169,458
		Reported Diagnoses	46	418	306	254	166	64
		Rate	8.6	51.2	39.2	31.2	19.0	5.5
2015	1,196	Population	534,707	813,859	792,949	796,574	877,584	1,205,143
		Reported Diagnoses	50	437	288	209	158	54
		Rate	9.4	53.7	36.3	26.2	18.0	4.5
2016	1,117	Population	533,837	807,153	803,766	781,124	873,630	1,240,221
		Reported Diagnoses	50	397	263	184	146	77
		Rate	9.4	49.2	32.7	23.6	16.7	6.2
2017	1,039	Population	533,021	801,406	814,131	771,504	864,841	1,276,124
		Reported Diagnoses	59	369	270	151	121	69
		Rate	11.1	46.0	33.2	19.6	14.0	5.4
2018	994	Population	532,906	794,984	823,580	763,740	853,899	1,311,557
		Reported Diagnoses	53	339	262	152	137	51
		Rate	9.9	42.6	31.8	19.9	16.0	3.9

Figure 7 – Trends in Reported HIV Diagnoses, Among Residents at Diagnosis Aged 13+, by Estimated Exposure Category, 1985-2018, Reported through June 30, 2019

Number and Percent by Estimated Exposure Category[§] of People Diagnosed with HIV, Age 13+ at HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2018, as Reported through June 30, 2019



Other exposure category not shown

§ Multiple imputation was used to estimate and adjust for missing exposure category.

Reported HIV Diagnoses Among People Aged 13+												
Year of HIV Diagnosis	No.	% with No Reported Exposure [§]	Estimated Exposure Category [§]									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	378	5.3%	220	58.3%	86	22.8%	39	10.2%	19	5.0%	14	3.7%
1985	710	4.9%	355	50.0%	207	29.2%	77	10.8%	41	5.7%	30	4.2%
1986	932	3.1%	472	50.7%	293	31.4%	80	8.6%	60	6.4%	26	2.8%
1987	1,236	3.3%	572	46.3%	440	35.6%	106	8.6%	82	6.6%	36	2.9%
1988	1,678	3.9%	663	39.5%	696	41.4%	147	8.8%	137	8.2%	35	2.1%
1989	2,131	3.6%	754	35.4%	952	44.7%	178	8.3%	203	9.5%	44	2.1%
1990	2,228	4.3%	751	33.7%	1,011	45.4%	175	7.9%	261	11.7%	30	1.3%
1991	2,555	4.7%	757	29.6%	1,238	48.5%	159	6.2%	366	14.3%	35	1.4%
1992	2,400	6.0%	595	24.8%	1,267	52.8%	160	6.7%	359	14.9%	19	0.8%
1993	2,154	4.4%	523	24.3%	1,102	51.2%	136	6.3%	374	17.3%	20	0.9%
1994	1,996	5.4%	460	23.1%	1,009	50.5%	99	4.9%	409	20.5%	19	1.0%
1995	1,975	6.4%	454	23.0%	941	47.7%	117	5.9%	449	22.7%	14	0.7%
1996	1,831	7.2%	387	21.1%	899	49.1%	104	5.7%	427	23.3%	14	0.8%
1997	1,874	8.4%	406	21.6%	886	47.3%	92	4.9%	486	25.9%	5	0.3%
1998	1,831	8.6%	347	19.0%	870	47.5%	105	5.7%	500	27.3%	9	0.5%
1999	1,791	9.4%	389	21.7%	795	44.4%	82	4.6%	520	29.0%	5	0.3%
2000	1,705	10.0%	359	21.1%	672	39.4%	83	4.9%	588	34.5%	3	0.2%
2001	1,819	10.1%	358	19.7%	755	41.5%	87	4.8%	618	34.0%	2	0.1%
2002	2,033	11.2%	442	21.7%	739	36.4%	74	3.6%	775	38.1%	3	0.1%
2003	1,921	10.6%	456	23.7%	676	35.2%	80	4.2%	704	36.7%	4	0.2%
2004	1,959	13.7%	505	25.8%	598	30.5%	62	3.2%	789	40.3%	5	0.3%
2005	1,999	16.8%	524	26.2%	582	29.1%	71	3.6%	820	41.0%	2	0.1%
2006	2,139	21.6%	584	27.3%	593	27.7%	98	4.6%	858	40.1%	6	0.3%
2007	2,155	24.6%	694	32.2%	503	23.3%	68	3.2%	885	41.1%	5	0.2%
2008	2,051	31.5%	761	37.1%	367	17.9%	51	2.5%	871	42.5%	1	0.0%
2009	1,708	32.1%	708	41.5%	222	13.0%	35	2.0%	742	43.5%	0	0.0%
2010	1,756	34.1%	785	44.7%	208	11.8%	35	2.0%	725	41.3%	3	0.2%
2011	1,432	31.5%	693	48.4%	137	9.6%	30	2.1%	572	39.9%	0	0.0%
2012	1,354	20.9%	679	50.1%	111	8.2%	23	1.7%	540	39.9%	1	0.1%
2013	1,312	16.7%	643	49.0%	95	7.3%	34	2.6%	538	41.1%	1	0.1%
2014	1,254	15.4%	654	52.2%	71	5.6%	15	1.2%	513	40.9%	1	0.1%
2015	1,196	10.2%	631	52.8%	71	5.9%	15	1.3%	479	40.0%	1	0.1%
2016	1,117	15.4%	580	51.9%	66	5.9%	20	1.8%	450	40.3%	1	0.1%
2017	1,039	15.9%	562	54.1%	67	6.4%	16	1.5%	394	37.9%	1	0.1%
2018	994	24.0%	533	53.6%	66	6.6%	12	1.2%	383	38.5%	1	0.1%
Total	58,643	12.9%	19,256	32.8%	19,291	32.9%	2,765	4.7%	16,937	28.9%	396	0.7%

§ Multiple imputation was used to estimate and adjust for missing transmission category.

*Percent with no reported exposure prior to multiple imputation adjustment.

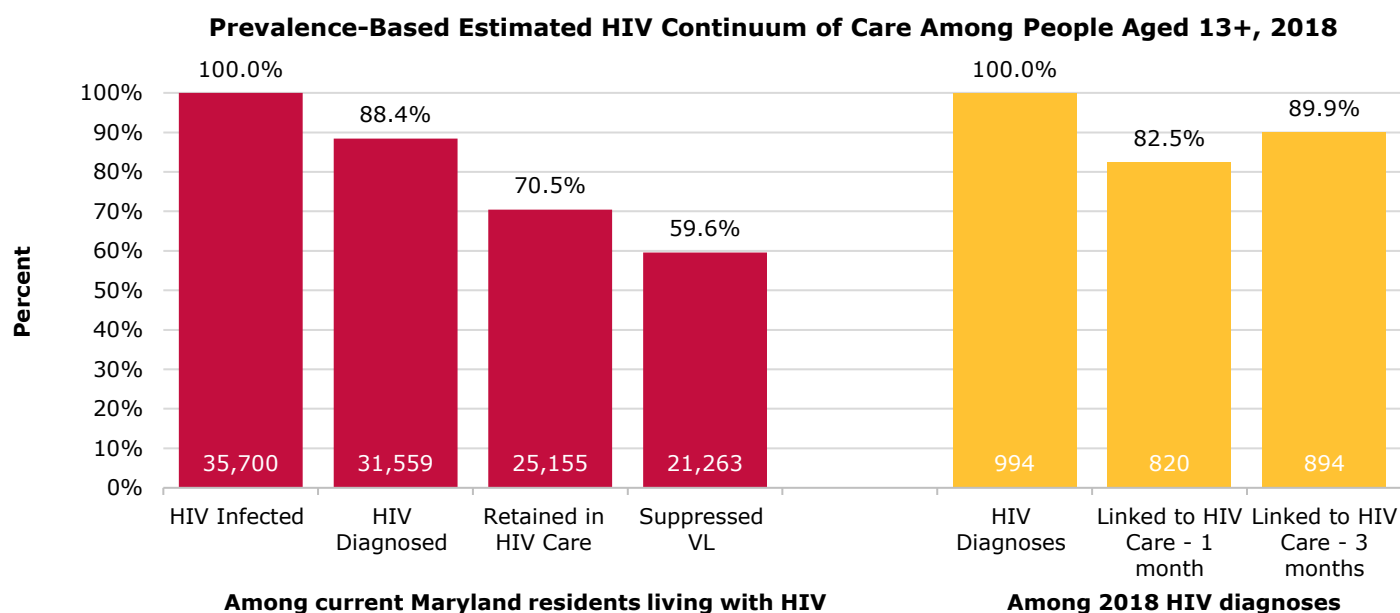
Note. Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1 percent of people missing transmission category after multiple imputation.

Section III – Continuum of Care Cascades

In their 2011 article in Clinical Infectious Diseases, Gardner et al.¹ utilize a continuum of care “cascade” to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Figure 8 – Prevalence-Based Estimated 2018 HIV Continuum of Care Cascades, Among Current Maryland Residents Aged 13+, Reported through June 30, 2019

The prevalence-based Maryland Engagement in HIV Care Cascades (below) apply the Centers for Disease Control and Prevention (CDC) CD4 depletion model to Maryland surveillance data, reported through June 30, 2019, to estimate the number of people living with undiagnosed HIV (11.6 percent) and the estimated number of people living with HIV currently residing in Maryland. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in Maryland on December 31, 2018 and the number and percentage of new HIV diagnoses in 2018 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2018 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Infected		100.0%	New HIV Diagnoses	994	100.0%
HIV Diagnosed		88.4%	Linked to HIV Care – 1 Month	820	82.5%
Retained in HIV Care		70.5%	Linked to HIV Care – 3 Months	894	89.9%
Suppressed VL		59.6%			

¹ Gardner et al, “The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection.” Clin Infect Dis. 2011; 52 (6): 793-800.

² Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2010–2015. HIV Surveillance Supplemental Report 2018;23(No. 1). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published March 2018.

Figure 8A – Prevalence-Based Estimated 2018 HIV Continuum of Care Cascades, Among Current Maryland Residents Aged 13+, by Sex at Birth, Reported through June 30, 2019

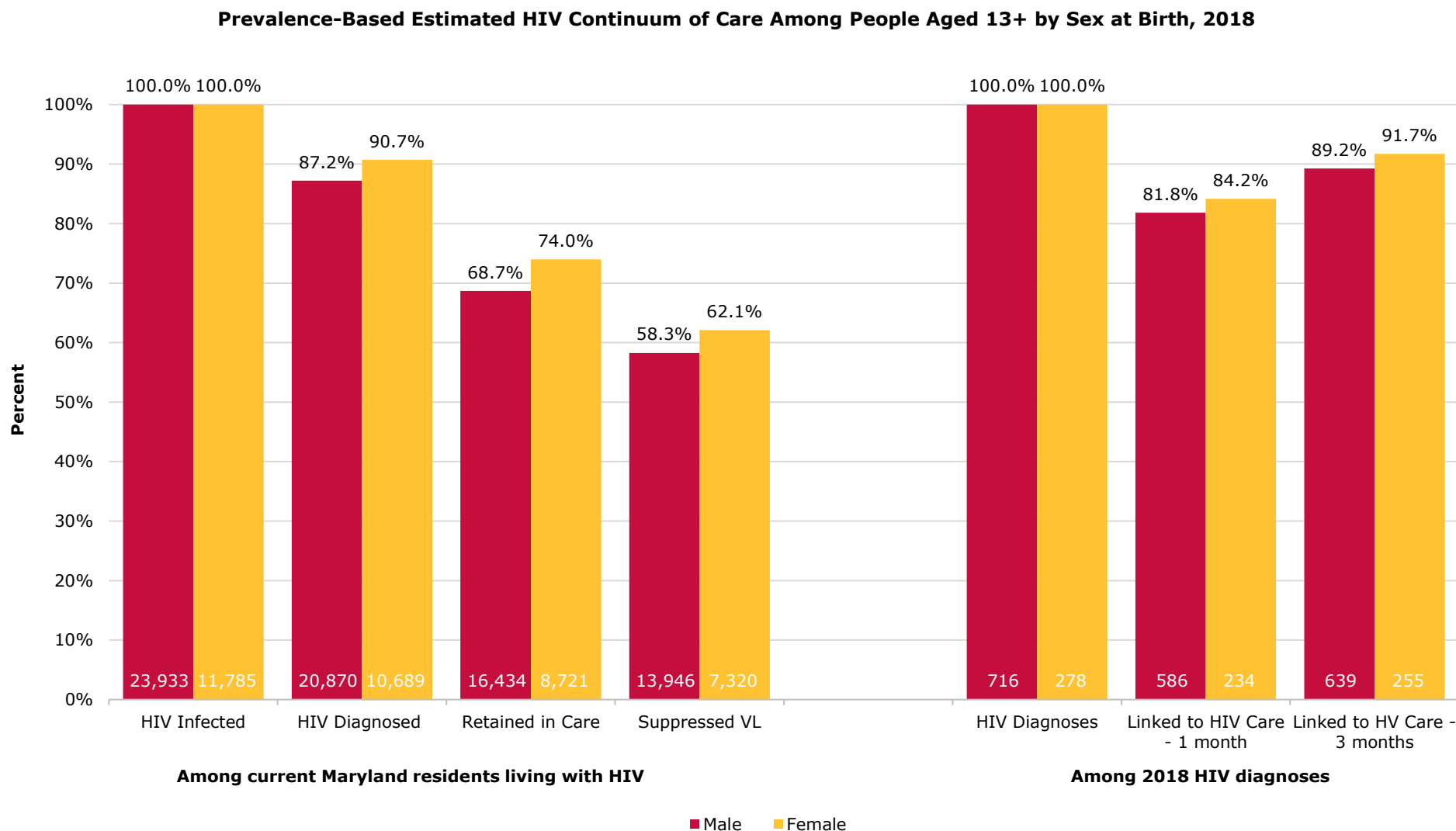


Figure 8B – Prevalence-Based Estimated 2018 HIV Continuum of Care Cascades, Among Current Maryland Residents Aged 13+, by Race/Ethnicity, Reported through June 30, 2019

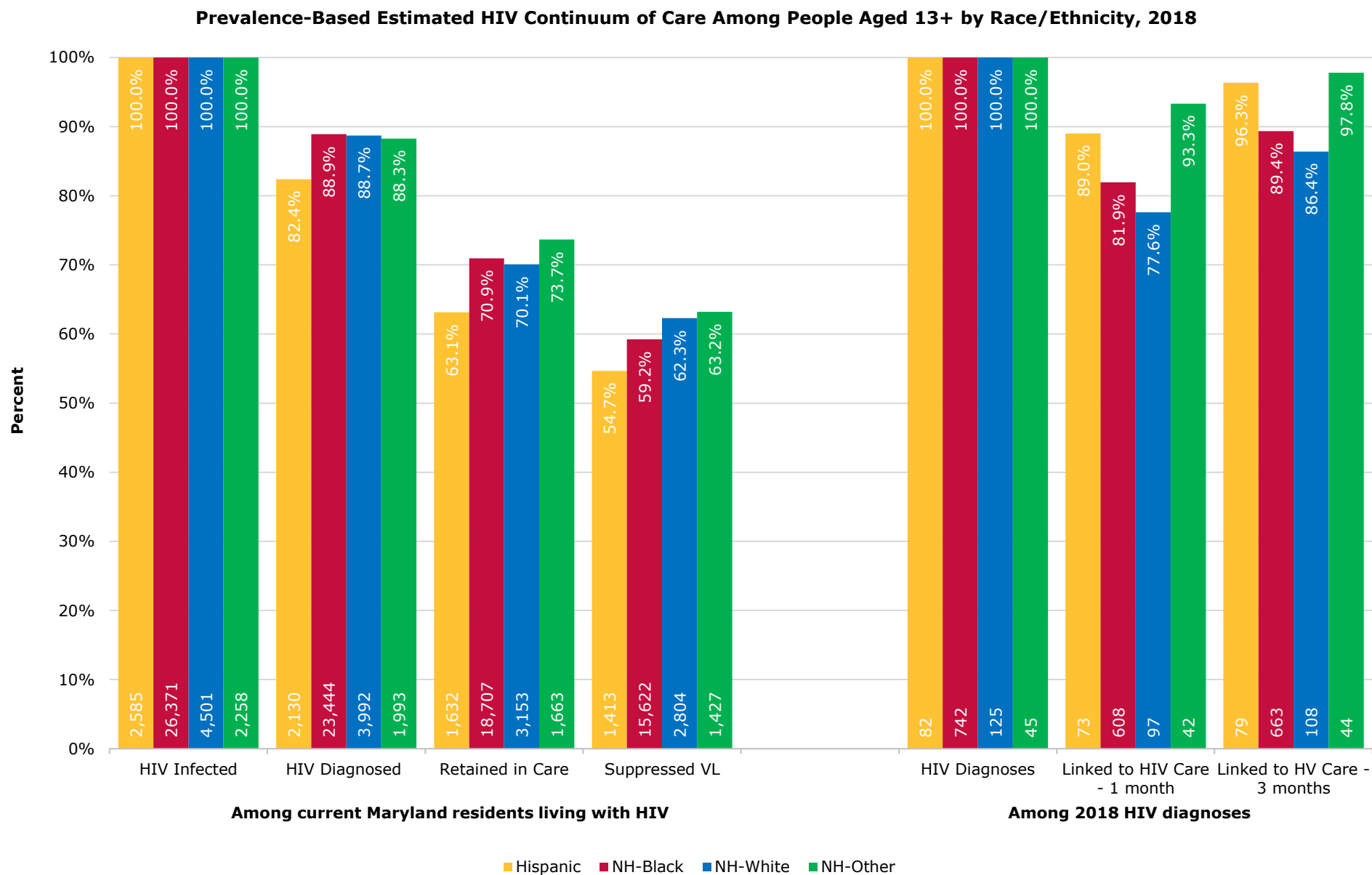
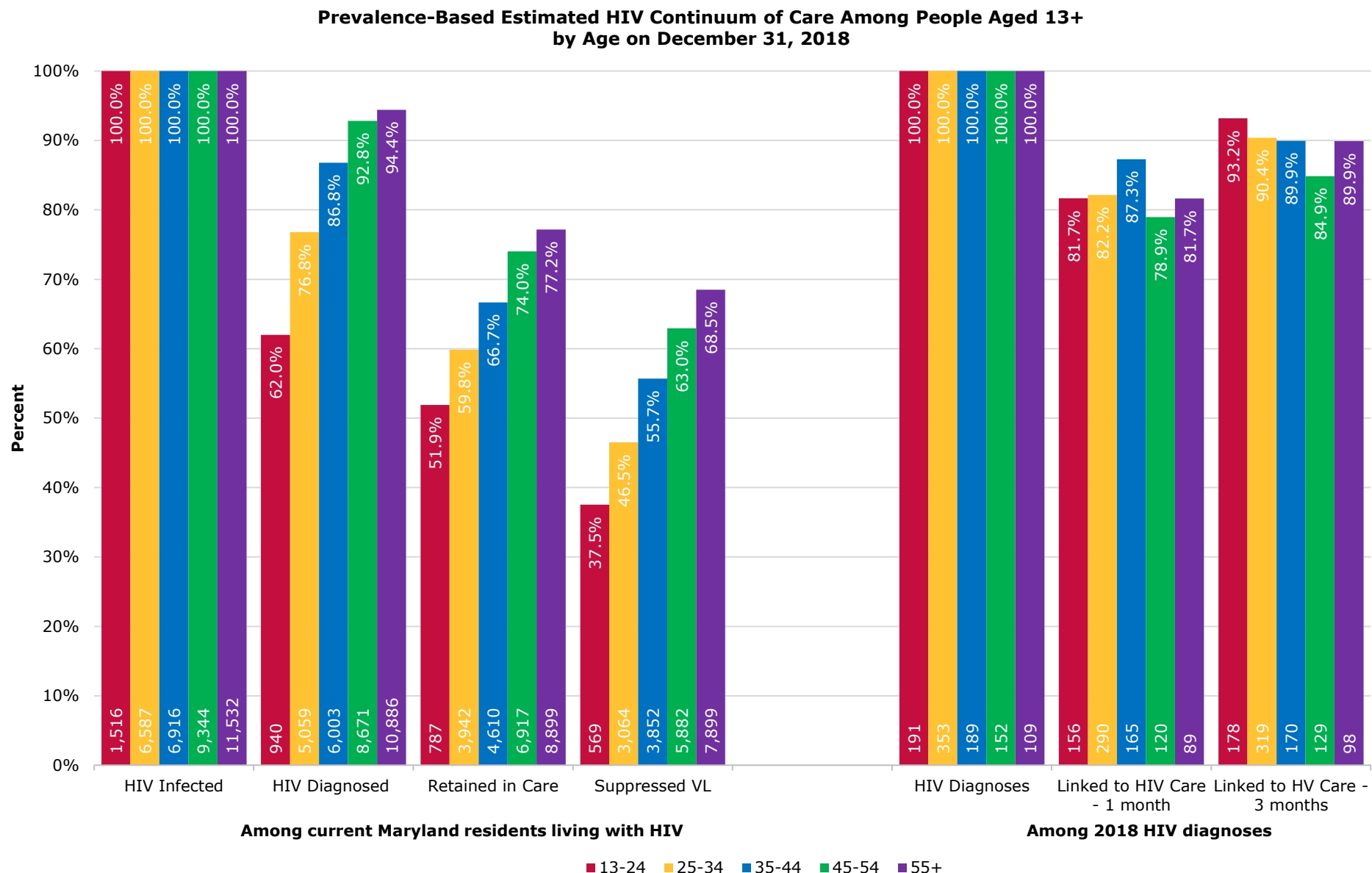
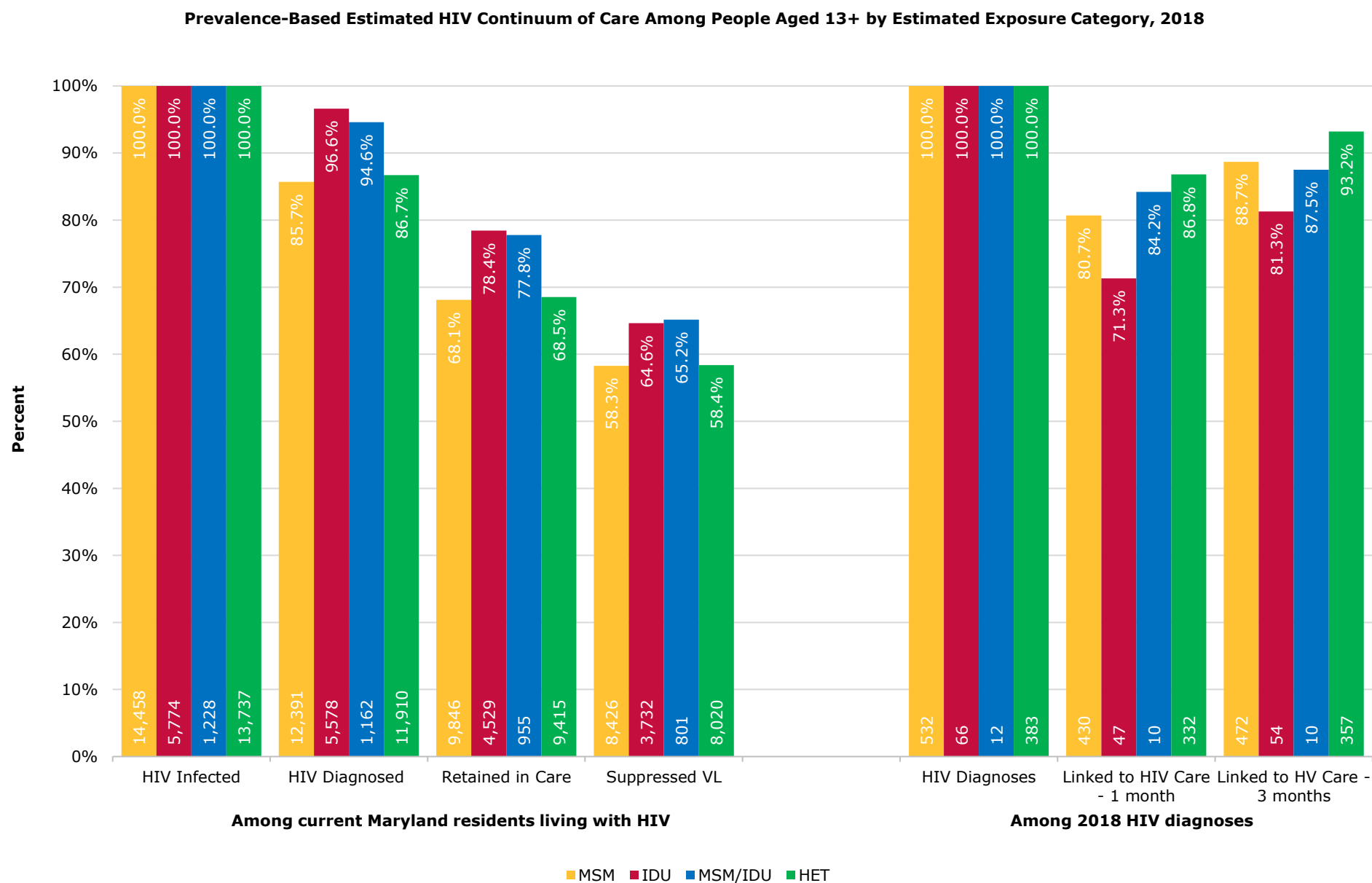


Figure 8C – Prevalence-Based Estimated 2018 HIV Continuum of Care Cascades, Among Current Maryland Residents Aged 13+, by Age on December 31, 2018, Reported through June 30, 2019



Note. Age groups are consistent with the national standard presentation of the HIV continuum of care by age. A diagnosis-based continuum of care broken down by 10-year age groups is available on the Maryland Department of Health HIV by Age Data Sheet.

Figure 8D – Prevalence-Based Estimated 2018 HIV Continuum of Care Cascades, Among Current Maryland Residents Aged 13+, by Estimated Exposure Category, Reported through June 30, 2019

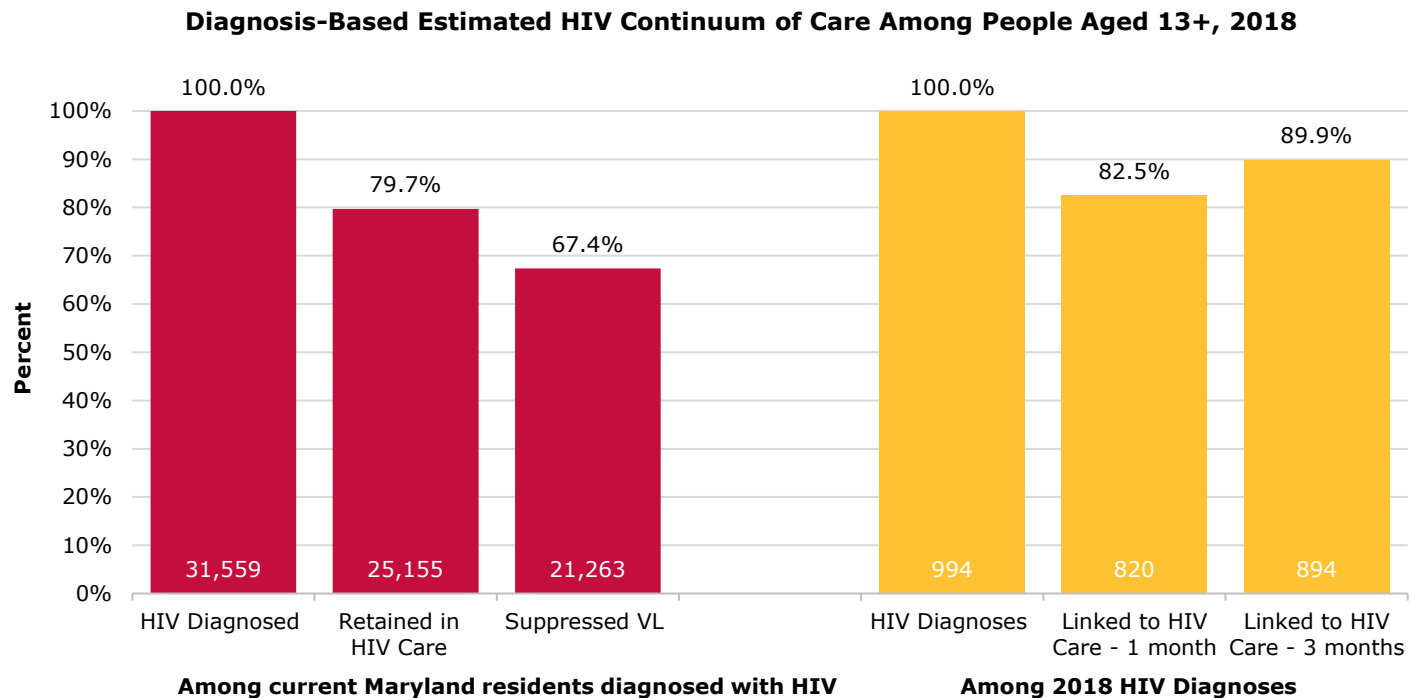


Demographic	Continuum of Care Stage													
	People Aged 13+ Living with Diagnosed HIV								Reported 2018 Diagnoses Among People Aged 13+					
	HIV Infected		HIV Diagnosed		Retained in Care		Suppressed VL		HIV Diagnosed		Linked to HIV Care – 1 Month		Linked to HIV Care – 3 Months	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sex at Birth														
Male	23,933	100.0%	20,870	87.2%	16,434	68.7%	13,946	58.3%	716	100.0%	586	81.8%	639	89.2%
Female	11,785	100.0%	10,689	90.7%	8,721	74.0%	7,320	62.1%	278	100.0%	234	84.2%	255	91.7%
Age on December 31, 2018														
13-24	1,516	100.0%	940	62.0%	787	51.9%	569	37.5%	191	100.0%	156	81.7%	178	93.2%
25-34	6,587	100.0%	5,059	76.8%	3,942	59.8%	3,064	46.5%	353	100.0%	290	82.2%	319	90.4%
35-44	6,916	100.0%	6,003	86.8%	4,610	66.7%	3,852	55.7%	189	100.0%	165	87.3%	170	89.9%
45-54	9,344	100.0%	8,671	92.8%	6,917	74.0%	5,882	63.0%	152	100.0%	120	78.9%	129	84.9%
55+	11,532	100.0%	10,886	94.4%	8,899	77.2%	7,899	68.5%	109	100.0%	89	81.7%	98	89.9%
Race/Ethnicity														
American Indian/Alaska Native	18	100.0%	18	100.0%	10	55.6%	9	50.0%	2	100.0%	2.0%	100.0%	2.0%	100.0%
Asian	276	100.0%	229	83.0%	170	61.6%	158	57.3%	22	100.0%	20	90.9%	21	95.5%
Black/African American	26,371	100.0%	23,444	88.9%	18,707	70.9%	15,622	59.2%	742	100.0%	608	81.9%	663	89.4%
Hispanic/Latino	2,585	100.0%	2,130	82.4%	1,632	63.1%	1,413	54.7%	82	100.0%	73	89.0%	79	96.3%
Native Hawaiian/Other Pacific Islander	2	100.0%	2	96.5%	2	96.5%	2	96.5%	0	100.0%	--	--	--	--
White	4,501	100.0%	3,992	88.7%	3,153	70.1%	2,804	62.3%	125	100.0%	97	77.6%	108	86.4%
Multiple races	1,962	100.0%	1,744	88.9%	1,481	75.5%	1,258	64.1%	21	100.0%	20	95.2%	21	100.0%
Exposure Category														
Male-to-male sexual contact (MSM)	14,458	100.0%	12,391	85.7%	9,846	68.1%	8,426	58.3%	532	100.0%	430	80.7%	472	88.7%
Injection drug use (IDU)	5,774	100.0%	5,578	96.6%	4,529	78.4%	3,732	64.6%	66	100.0%	47	71.3%	54	81.3%
Male	3,396	100.0%	3,267	96.2%	2,585	76.1%	2,148	63.2%	42	100.0%	33	78.2%	35	82.5%
Female	2,380	100.0%	2,311	97.1%	1,944	81.7%	1,585	66.6%	24	100.0%	14	59.3%	19	79.3%
MSM/IDU	1,228	100.0%	1,162	94.6%	955	77.8%	801	65.2%	12	100.0%	10	84.2%	10	87.5%
Heterosexual contact (HET)	13,737	100.0%	11,910	86.7%	9,415	68.5%	8,020	58.4%	383	200.0%	332	86.8%	357	93.2%
Male	4,629	100.0%	3,814	82.4%	2,866	61.9%	2,440	52.7%	130	100.0%	113	87.4%	122	93.8%
Female	9,107	100.0%	8,096	88.9%	6,549	71.9%	5,580	61.3%	253	100.0%	219	86.5%	235	92.9%
Total	35,700	100.0%	31,559	88.4%	25,155	70.5%	21,266	59.6%	994	100.0%	820	82.5%	894	89.9%

Note. Other exposure category and perinatal transmission not shown. Multiple imputation was used to estimate and adjust for missing transmission category. Percentages calculated using exact estimates.

Figure 9 – Diagnosis-Based Estimated 2018 HIV Continuum of Care Cascades, Among Current Maryland Residents Aged 13+, Reported through June 30, 2019

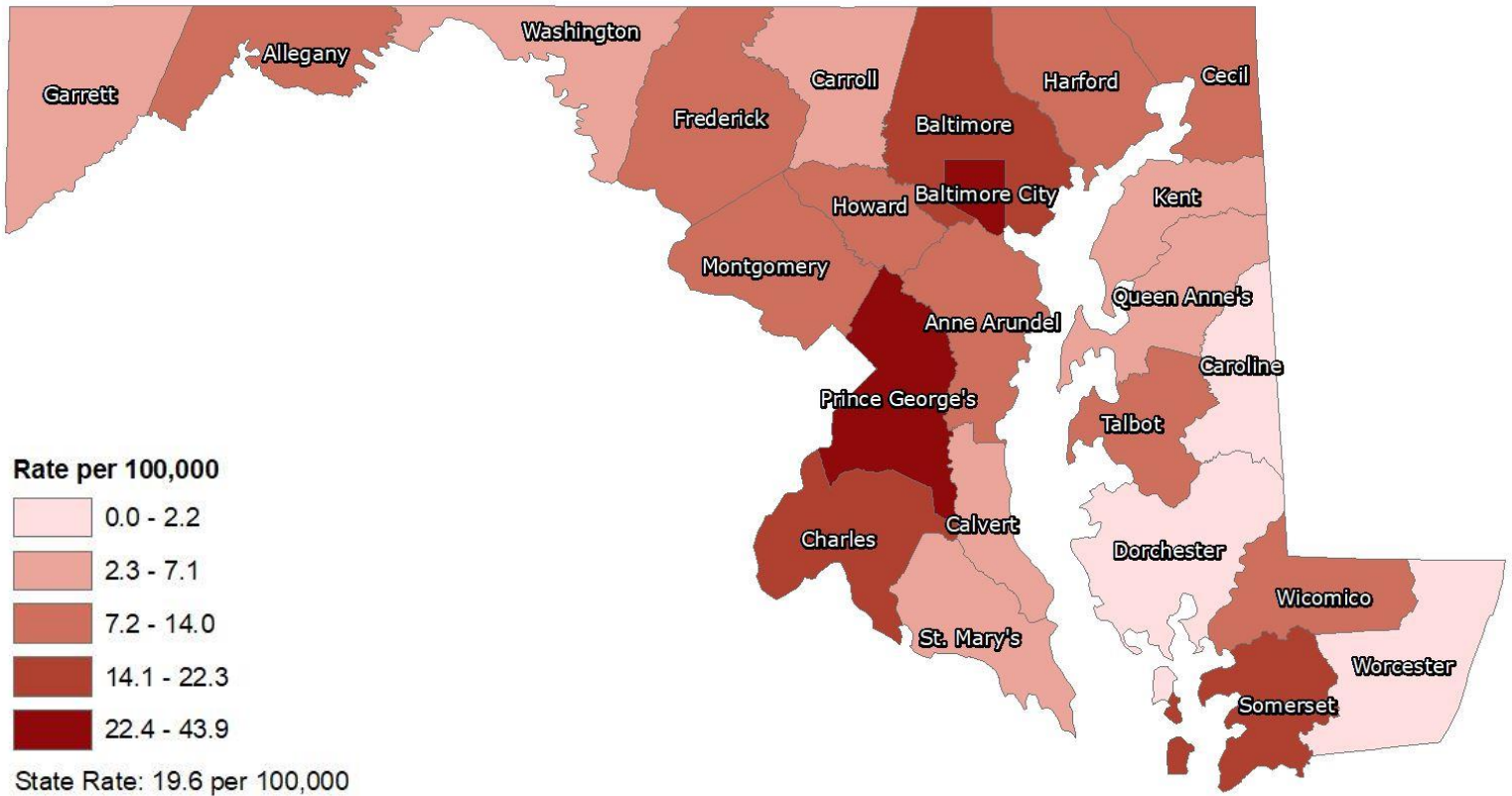
The diagnosis-based Maryland Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Maryland residents to describe the number and percentage of persons living with diagnosed HIV in Maryland on December 31, 2018 and the number and percentage of new HIV diagnoses in 2018 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	People Aged 13+ Living with HIV		Continuum of Care Stage	Reported 2018 HIV Diagnoses	
	Number	Percent		Number	Percent
HIV Diagnosed	31,559	100.0%	New HIV Diagnoses	994	100.0%
Retained in HIV Care	25,155	79.7%	Linked to HIV Care – 1 Month	820	82.5%
Suppressed VL	21,263	67.4%	Linked to HIV Care – 3 Months	894	89.9%

Section IV –Reported HIV Diagnoses, Among People Aged 13+, by Jurisdiction

Maryland Reported HIV Diagnoses Among People Aged 13+, Rate by Jurisdiction, 2018



- The rate of new HIV diagnoses among people aged 13+ in Maryland is **19.6 per 100,000**.
Jurisdictions with the highest rate of new HIV diagnoses among people aged 13+ in Maryland include:
 - Baltimore City: **43.9 per 100,000**
 - Prince George's County: **40.9 per 100,000**
 - Somerset County: **22.3 per 100,000**
 - Baltimore County: **17.1 per 100,000**
- The rate of new AIDS diagnoses among people aged 13+ in Maryland is **10.2 per 100,000**.
Jurisdictions with the highest rate of new AIDS diagnoses among people aged 13+ in Maryland include:
 - Baltimore City: **28.0 per 100,000**
 - Prince George's County: **18.7 per 100,000**
 - Baltimore County: **8.2 per 100,000**
 - Montgomery County: **7.2 per 100,000**

Table 1 – Reported HIV Diagnoses, Among People Aged 13+ During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through June 30, 2019

Jurisdiction of Residence at HIV Diagnosis	Population Age 13+	Reported HIV Diagnoses Among People Aged 13+							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		% with Test	Median Count
Allegany	62,278	8	0.8%	12.8	87.5%	100.0%	***	100.0%	369
Anne Arundel	483,036	40	4.0%	8.3	92.5%	97.5%	37.5%	95.0%	380
Baltimore City	510,571	224	22.5%	43.9	78.6%	85.3%	19.2%	90.6%	407
Baltimore	699,848	120	12.1%	17.1	83.3%	88.3%	20.8%	90.0%	382
Calvert	77,463	4	0.4%	5.2	***	***	***	***	***
Caroline	27,707	0	0.0%	0.0	--	--	--	--	--
Carroll	143,269	7	0.7%	4.9	85.7%	85.7%	***	85.7%	431
Cecil	86,608	8	0.8%	9.2	75.0%	100.0%	***	87.5%	403
Charles	134,428	22	2.2%	16.4	90.9%	95.5%	***	95.5%	497
Dorchester	27,228	0	0.0%	0.0	--	--	--	--	--
Frederick	214,057	22	2.2%	10.3	95.5%	95.5%	***	95.5%	471
Garrett	25,427	1	0.1%	3.9	***	***	***	***	***
Harford	214,532	18	1.8%	8.4	72.2%	88.9%	***	100.0%	439
Howard	268,234	31	3.1%	11.6	93.5%	96.8%	29.0%	96.8%	396
Kent	17,222	1	0.1%	5.8	***	***	***	***	***
Montgomery	877,597	123	12.4%	14.0	86.2%	91.1%	24.4%	95.1%	358
Prince George's	760,274	311	31.3%	40.9	82.3%	91.6%	21.5%	94.5%	384
Queen Anne's	42,794	3	0.3%	7.0	***	***	***	***	***
Saint Mary's	93,234	4	0.4%	4.3	***	***	***	***	***
Somerset	22,469	5	0.5%	22.3	100.0%	100.0%	***	100.0%	300
Talbot	32,218	3	0.3%	9.3	***	***	***	***	***
Washington	127,623	9	0.9%	7.1	66.7%	77.8%	***	66.7%	355
Wicomico	86,947	11	1.1%	12.7	54.5%	81.8%	***	90.9%	417
Worcester	45,604	1	0.1%	2.2	***	***	***	***	***
Corrections	--	18	1.8%	--	83.3%	88.9%	***	94.4%	508
Total	5,080,666	994	100.0%	19.6	82.5%	89.9%	21.2%	93.1%	396

*** Data withheld due to low population counts and/or small numbers

Table 2 – Reported AIDS Diagnoses, Among People Aged 13+ During 2018, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through June 30, 2019

Jurisdiction of Residence at AIDS Diagnosis	Population Age 13+	Reported AIDS Diagnoses Among People Aged 13+				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Allegany	62,278	2	0.4%	3.2	***	***
Anne Arundel	483,036	32	6.3%	6.6	3.5	50.0%
Baltimore City	510,571	143	28.2%	28.0	7.4	30.1%
Baltimore	699,848	59	11.6%	8.4	5.6	45.8%
Calvert	77,463	2	0.4%	2.6	***	***
Caroline	27,707	0	0.0%	0.0	--	--
Carroll	143,269	5	1.0%	3.5	2.5	80.0%
Cecil	86,608	4	0.8%	4.6	***	***
Charles	134,428	8	1.6%	6.0	3.3	12.5%
Dorchester	27,228	1	0.2%	3.7	***	***
Frederick	214,057	3	0.6%	1.4	***	***
Garrett	25,427	0	0.0%	0.0	--	--
Harford	214,532	7	1.4%	3.3	6.8	42.9%
Howard	268,234	13	2.6%	4.8	1.3	69.2%
Kent	17,222	0	0.0%	0.0	--	--
Montgomery	877,597	63	12.4%	7.2	4.1	49.2%
Prince George's	760,274	142	28.0%	18.7	4.2	47.2%
Queen Anne's	42,794	1	0.2%	2.3	***	***
Saint Mary's	93,234	4	0.8%	4.3	***	***
Somerset	22,469	1	0.2%	4.5	***	***
Talbot	32,218	1	0.2%	3.1	***	***
Washington	127,623	4	0.8%	3.1	***	***
Wicomico	86,947	6	1.2%	6.9	6.8	33.3%
Worcester	45,604	0	0.0%	0.0	--	--
Corrections	--	6	1.2%	--	6.0	33.3%
Total	5,080,666	507	100.0	10.2	5.3	42.4%

*** Data withheld due to low population counts and/or small numbers

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2019

Jurisdiction of Residence	Population Age 13+	Total People Aged 13+ Living with Diagnosed HIV								
		Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Allegany	62,278	75	0.2%	120.4	830	98	0.3%	157.4	635	30.7%
Anne Arundel	483,036	1,251	3.8%	259.0	386	1,358	4.3%	281.1	356	8.6%
Baltimore City	510,571	12,120	36.9%	2,373.8	42	11,036	35.0%	2,161.5	46	-8.9%
Baltimore	699,848	3,186	9.7%	455.2	220	3,597	11.4%	514.0	195	12.9%
Calvert	77,463	113	0.3%	145.9	686	133	0.4%	171.7	582	17.7%
Caroline	27,707	65	0.2%	234.6	426	59	0.2%	212.9	470	-9.2%
Carroll	143,269	146	0.4%	101.9	981	158	0.5%	110.3	907	8.2%
Cecil	86,608	118	0.4%	136.2	734	143	0.5%	165.1	606	21.2%
Charles	134,428	476	1.4%	354.1	282	566	1.8%	421.0	238	18.9%
Dorchester	27,228	129	0.4%	473.8	211	148	0.5%	543.6	184	14.7%
Frederick	214,057	360	1.1%	168.2	595	441	1.4%	206.0	485	22.5%
Garrett	25,427	11	0.0%	43.3	2,312	18	0.1%	70.8	1,413	63.6%
Harford	214,532	460	1.4%	214.4	466	516	1.6%	240.5	416	12.2%
Howard	268,234	609	1.9%	227.0	440	681	2.2%	253.9	394	11.8%
Kent	17,222	37	0.1%	214.8	465	41	0.1%	238.1	420	10.8%
Montgomery	877,597	4,001	12.2%	455.9	219	3,489	11.1%	397.6	252	-12.8%
Prince George's	760,274	7,594	23.1%	998.8	100	7,810	24.7%	1,027.3	97	2.8%
Queen Anne's	42,794	52	0.2%	121.5	823	48	0.2%	112.2	892	-7.7%
Saint Mary's	93,234	141	0.4%	151.2	661	162	0.5%	173.8	576	14.9%
Somerset	22,469	59	0.2%	262.6	381	69	0.2%	307.1	326	16.9%
Talbot	32,218	65	0.2%	201.8	496	77	0.2%	239.0	418	18.5%
Washington	127,623	294	0.9%	230.4	434	349	1.1%	273.5	366	18.7%
Wicomico	86,947	236	0.7%	271.4	368	249	0.8%	286.4	349	5.5%
Worcester	45,604	76	0.2%	166.7	600	87	0.3%	190.8	524	14.5%
Corrections	--	1,195	3.6%	--	--	226	0.7%	--	--	--
Total	5,080,666	32,869	100.0%	646.9	155	31,559	100.0%	621.2	161	-4.0%

Table 4 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Current Residence, Reported through June 30, 2019

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Allegany	98	88	89.8%	703	3.4%	8.0%	15.9%	72.7%
Anne Arundel	1,358	1,029	75.8%	617	8.3%	11.3%	17.0%	63.5%
Baltimore City	11,036	8,392	76.0%	594	10.3%	13.0%	15.7%	61.0%
Baltimore	3,597	2,741	76.2%	629	7.9%	11.4%	15.1%	65.6%
Calvert	133	112	84.2%	640	8.0%	11.6%	17.9%	62.5%
Caroline	59	50	84.7%	651	4.0%	8.0%	22.0%	66.0%
Carroll	158	114	72.2%	681	5.3%	13.2%	12.3%	69.3%
Cecil	143	98	68.5%	603	9.2%	13.3%	15.3%	62.2%
Charles	566	452	79.9%	651	8.0%	10.4%	15.5%	66.2%
Dorchester	148	127	85.8%	586	7.9%	12.6%	18.9%	60.6%
Frederick	441	348	78.9%	635	4.9%	8.6%	15.5%	71.0%
Garrett	18	16	88.9%	837	0.0%	6.3%	25.0%	68.8%
Harford	516	386	74.8%	598	8.5%	11.1%	19.2%	61.1%
Howard	681	517	75.9%	643	6.0%	13.3%	14.5%	66.2%
Kent	41	34	82.9%	708	2.9%	5.9%	17.6%	73.5%
Montgomery	3,489	2,518	72.2%	608	6.8%	11.9%	16.4%	65.0%
Prince George's	7,810	5,995	76.8%	608	8.2%	11.3%	17.5%	63.1%
Queen Anne's	48	40	83.3%	673	7.5%	15.0%	12.5%	65.0%
Saint Mary's	162	131	80.9%	593	6.9%	15.3%	17.6%	60.3%
Somerset	69	56	81.2%	554	16.1%	17.9%	10.7%	55.4%
Talbot	77	65	84.4%	473	16.9%	16.9%	18.5%	47.7%
Washington	349	276	79.1%	624	6.9%	11.6%	14.1%	67.4%
Wicomico	249	204	81.9%	538	11.8%	15.7%	16.2%	56.4%
Worcester	87	73	83.9%	618	6.8%	12.3%	11.0%	69.9%
Corrections	226	170	75.2%	626	4.7%	13.5%	17.1%	64.7%
Total	31,559	24,032	76.1%	608	8.6%	12.0%	16.2%	63.1%

Table 5 – Viral Load Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Current Residence, Reported through June 30, 2019

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Allegany	98	86	87.8%	94.2%	11,246
Anne Arundel	1,358	1,043	76.8%	87.2%	10,450
Baltimore City	11,036	8,679	78.6%	85.4%	11,600
Baltimore	3,597	2,834	78.8%	88.4%	8,645
Calvert	133	110	82.7%	90.9%	3,310
Caroline	59	50	84.7%	90.0%	720
Carroll	158	113	71.5%	95.6%	40,700
Cecil	143	99	69.2%	78.8%	20,000
Charles	566	451	79.7%	87.8%	8,214
Dorchester	148	123	83.1%	90.2%	8,390
Frederick	441	349	79.1%	90.8%	10,235
Garrett	18	17	94.4%	82.4%	20,500
Harford	516	390	75.6%	86.9%	14,900
Howard	681	529	77.7%	87.3%	4,330
Kent	41	35	85.4%	94.3%	331,500
Montgomery	3,489	2,510	71.9%	90.3%	8,410
Prince George's	7,810	5,995	76.8%	86.9%	12,600
Queen Anne's	48	39	81.3%	94.9%	44,507
Saint Mary's	162	136	84.0%	88.2%	1,970
Somerset	69	56	81.2%	80.4%	11,580
Talbot	77	67	87.0%	91.0%	62,750
Washington	349	266	76.2%	82.3%	2,980
Wicomico	249	199	79.9%	91.0%	6,285
Worcester	87	75	86.2%	97.3%	62,455
Corrections	226	161	71.2%	87.0%	8,330
Total	31,559	24,412	77.4%	87.1%	10,700

Section V – People Living with Diagnosed HIV by Age

Table 6 – Reported HIV Diagnoses During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through June 30, 2019

Age at HIV Diagnosis	Population	Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	% with Test	Median Count
<5 (Pediatric)	364,504	2	0.2%	0.5	***	***	***	***	***
5-12 (Pediatric)	597,548	1	0.1%	0.2	***	***	***	***	***
13-19	532,906	53	5.3%	9.9	81.1%	96.2%	***	94.3%	439
20-29	794,984	339	34.0%	42.6	81.7%	90.6%	12.1%	93.8%	442
30-39	823,580	262	26.3%	31.8	83.6%	89.7%	24.4%	92.0%	383
40-49	763,740	152	15.2%	19.9	85.5%	88.2%	29.6%	91.4%	304
50-59	853,899	137	13.7%	16.0	79.6%	86.9%	30.7%	94.9%	313
60+	1,311,557	51	5.1%	3.9	82.4%	94.1%	31.4%	92.2%	378
Total	6,042,718	997	100.0%	16.5	82.5%	90.0%	21.3%	93.1%	397

*** Data withheld due to low population counts and/or small numbers

Table 7 – People Living with Diagnosed HIV, Alive on December 31, 2018, by Age on December 31, 2018, Reported through June 30, 2019

Age on December 31, 2018	Population	Total People Living with Diagnosed HIV			
		No.	% of Total	Rate	Ratio (1 in X)
<5 (Pediatric)	364,504	10	0.0%	2.7	36,450
5-12 (Pediatric)	597,548	52	0.2%	8.7	11,491
13-19	532,906	188	0.6%	35.3	2,835
20-29	794,984	2,939	9.3%	369.7	270
30-39	823,580	5,860	18.5%	711.5	141
40-49	763,740	6,818	21.6%	892.7	112
50-59	853,899	9,604	30.4%	1,124.7	89
60+	1,311,557	6,150	19.4%	468.9	213
Total	6,042,718	31,621	100.0%	523.3	191

Table 8 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Age on December 31, 2018, Reported through June 30, 2019

Age on December 31, 2018	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	188	144	76.6%	661	2.1%	9.7%	18.8%	69.4%
20-29	2,939	2,244	76.4%	621	8.3%	10.1%	15.6%	66.0%
30-39	5,860	4,374	74.6%	613	9.1%	11.3%	16.6%	62.9%
40-49	6,818	5,113	75.0%	615	8.6%	12.4%	15.4%	63.7%
50-59	9,604	7,445	77.5%	604	9.1%	12.2%	16.2%	62.5%
60+	6,150	4,712	76.6%	594	7.8%	13.1%	17.0%	62.1%
Total	31,559	24,032	76.1%	608	8.6%	12.0%	16.2%	63.1%

Table 9 – Viral Load Test Results During 2018 for People Living with Diagnosed HIV, Alive on December 31, 2018, by Age on December 31, 2018, Reported through June 30, 2019

Age on December 31, 2018	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
13-19	188	152	80.9%	81.6%	8,819
20-29	2,939	2,290	77.9%	75.6%	12,758
30-39	5,860	4,400	75.1%	83.3%	13,250
40-49	6,818	5,170	75.8%	87.0%	12,000
50-59	9,604	7,587	79.0%	89.3%	8,170
60+	6,150	4,813	78.3%	92.9%	6,945
Total	31,559	24,412	77.4%	87.1%	10,700

Section VI – People Aged 13+ Living with Diagnosed HIV by Demographics

Table 10 – Reported HIV Diagnoses, Among People Aged 13+ During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2019

Demographic Characteristics	Population Age 13+	Reported HIV Diagnoses Among People Aged 13+							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	% with Test
Sex at Birth									
Male	2,437,974	716	72.0%	29.4	81.8%	89.2%	21.9%	92.6%	385
Female	2,642,693	278	28.0%	10.5	84.2%	91.7%	19.4%	94.2%	452
Gender									
Male	2,437,974	277	70.6%	28.8	81.8%	89.2%	22.1%	92.7%	385
Female	2,642,693	702	27.9%	10.5	84.5%	91.7%	19.5%	94.2%	450
Transgender Female	--	14	1.4%	--	***	***	***	***	***
Transgender Male	--	1	0.1%	--	***	***	***	***	***
Another Gender Identity	--	0	0.0%	--	--	--	--	--	--
Race/Ethnicity									
Hispanic	465,711	82	8.2%	17.6	89.0%	96.3%	26.8%	96.3%	352
Non-Hispanic	4,614,956	912	91.8%	19.8	81.9%	89.4%	20.7%	92.8%	398
American Indian/Alaska Native, only	12,627	2	0.2%	15.8	***	***	***	***	***
Asian, only	338,998	22	2.2%	6.5	90.9%	95.5%	45.5%	95.5%	280
Black, only	1,507,995	742	74.6%	49.2	81.9%	89.4%	20.2%	92.9%	398
Native Hawaiian/Other Pacific Islander, only	2,554	0	0.0%	0.0	--	--	--	--	--
White, only	2,658,002	125	12.6%	4.7	77.6%	86.4%	18.4%	91.2%	430
Multiracial/Other	94,780	21	2.1%	22.2	***	***	***	***	***
Total	5,080,666	994	100.0%	19.6	82.5%	89.9%	21.2%	93.1%	396
Country of Birth									
United States	4,171,682	796	80.1%	19.1	80.8%	88.6%	19.7%	92.6%	398
Foreign-Born	854,039	155	15.6%	18.1	89.0%	96.1%	31.0%	95.5%	342
Africa	--	106	10.7%	--	92.5%	96.2%	30.2%	95.3%	348
Asia	--	12	1.2%	--	100.0%	100.0%	41.7%	100.0%	362
Caribbean	--	11	1.1%	--	72.7%	100.0%	***	100.0%	436
Central America	--	18	1.8%	--	66.7%	88.9%	38.9%	100.0%	282
Other	--	8	0.8%	--	100.0%	100.0%	***	75.0%	351
Unknown	--	43	4.3%	--	90.7%	93.0%	14.0%	93.0%	441
Total	5,025,721	994	100.0%	19.8	82.5%	89.9%	21.2%	93.1%	396

Note. Population data by sex at birth, age, and race/ethnicity are from the 2018 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2017 American Community Survey.

*** Data withheld due to low population counts and/or small numbers

Table 11 – People Aged 13+ Living with Diagnosed HIV Alive on December 31, 2018, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2019

Demographic Characteristics	Population Age 13+	Total People Aged 13+ Living with Diagnosed HIV			
		No.	% of Total	Rate	Ratio (1 in X)
Sex at Birth					
Male	2,437,974	20,870	66.1%	856.0	117
Female	2,642,693	10,689	33.9%	404.5	247
Gender					
Male	2,437,974	20,573	65.2%	843.9	119
Female	2,642,693	10,672	33.8%	403.8	248
Transgender Female	--	296	0.9%	--	--
Transgender Male	--	17	0.1%	--	--
Another Gender Identity	--	1	0.0%	--	--
Race/Ethnicity					
Hispanic	465,711	2,130	6.7%	457.4	219
Non-Hispanic	4,614,956	29,429	93.3%	637.7	157
American Indian/Alaska Native, only	12,627	18	0.1%	142.6	702
Asian, only	338,998	229	0.7%	67.6	1,480
Black, only	1,507,995	23,444	74.3%	1,554.6	64
Native Hawaiian/Other Pacific Islander, only	2,554	2	0.0%	78.3	1,277
White, only	2,658,002	3,992	12.6%	150.2	666
Multiracial/Other	94,780	1,744	5.5%	1,840.0	54
Total	5,080,666	31,559	100.0%	621.2	161
Country of Birth					
United States	4,171,682	27,183	86.1%	651.6	153
Foreign-Born	854,039	4,376	13.9%	512.4	195
Africa	--	2,172	6.9%	--	--
Asia	--	206	0.7%	--	--
Caribbean	--	264	0.8%	--	--
Central America	--	551	1.7%	--	--
Other	--	241	0.8%	--	--
Unknown	--	942	3.0%	--	--
Total	5,025,721	31,559	100.0%	627.9	159

Note. Population data by sex at birth, age, and race/ethnicity are from the 2018 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2017 American Community Survey.

Table 12 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2019

Demographic Characteristics	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Sex at Birth								
Male	20,870	15,706	75.3%	591	8.7%	12.6%	17.3%	61.5%
Female	10,689	8,326	77.9%	643	8.5%	11.1%	14.2%	66.2%
Gender								
Male	20,573	15,466	75.2%	590	8.7%	12.6%	17.3%	61.4%
Female	10,672	8,313	77.9%	643	8.6%	11.1%	14.2%	66.2%
Transgender Female	296	239	80.7%	624	8.8%	10.9%	15.9%	64.4%
Transgender Male	17	***	***	***	***	***	***	***
Another Gender Identity	1	***	***	***	***	***	***	***
Race/Ethnicity								
Hispanic	2,130	1,569	73.7%	592	8.0%	11.5%	17.6%	63.0%
Non-Hispanic	29,429	22,463	76.3%	609	8.7%	12.1%	16.1%	63.1%
American Indian/Alaska Native, only	18	***	***	***	***	***	***	***
Asian, only	229	163	71.2%	575	5.5%	15.3%	21.5%	57.7%
Black, only	23,444	17,880	76.3%	603	9.0%	12.2%	16.4%	62.4%
Native Hawaiian/Other Pacific Islander, only	2	***	***	***	***	***	***	***
White, only	3,992	2,994	75.0%	650	6.7%	10.9%	13.9%	68.5%
Multiracial/Other	1,744	1,414	81.1%	605	9.5%	12.2%	16.5%	61.7%
Country of Birth								
United States	27,183	20,855	76.7%	611	9.0%	11.9%	16.1%	63.1%
Foreign-Born	3,475	2,543	73.2%	587	6.5%	13.3%	17.6%	62.6%
Africa	2,172	1,600	73.7%	574	6.4%	14.4%	18.8%	60.4%
Asia	206	145	70.4%	570	4.8%	15.9%	19.3%	60.0%
Caribbean	264	200	75.8%	642	8.5%	11.0%	13.5%	67.0%
Central America	551	398	72.2%	593	6.8%	12.6%	17.3%	63.3%
Other	282	200	70.9%	694	6.0%	7.0%	11.5%	75.5%
Unknown	901	634	70.4%	625	5.4%	12.5%	15.8%	66.4%
Total	31,559	24,032	76.1%	608	8.6%	12.0%	16.2%	63.1%

*** Data withheld due to low population counts and/or small numbers

Table 13 – Viral Load Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2019

Demographic Characteristics	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Sex at Birth					
Male	20,870	15,931	76.3%	87.5%	11,600
Female	10,689	8,481	79.3%	86.3%	9,440
Gender					
Male	20,573	15,685	76.2%	87.7%	11,700
Female	10,672	8,466	79.3%	86.3%	9,440
Transgender Female	296	245	82.8%	77.6%	6,809
Transgender Male	17	***	***	***	***
Another Gender Identity	1	***	***	***	***
Race/Ethnicity					
Hispanic	2,130	1,586	74.5%	89.1%	15,800
Non-Hispanic	29,429	22,826	77.6%	87.0%	10,300
American Indian/Alaska Native, only	18	***	***	***	***
Asian, only	229	170	74.2%	92.9%	152,500
Black, only	23,444	18,166	77.5%	86.0%	9,840
Native Hawaiian/Other Pacific Islander, only	2	***	***	***	***
White, only	3,992	3,045	76.3%	92.1%	11,810
Multiracial/Other	1,744	1,433	82.2%	87.8%	15,526
Country of Birth					
United States	27,183	21,204	78.0%	86.5%	11,300
Foreign-Born	3,475	2,557	73.6%	91.1%	6,425
Africa	2,172	1,605	73.9%	91.1%	3,131
Asia	206	151	73.3%	90.1%	26,090
Caribbean	264	205	77.7%	90.2%	13,600
Central America	551	395	71.7%	91.6%	11,437
Other	282	201	71.3%	92.0%	4,985
Unknown	901	651	72.3%	89.9%	8,362
Total	31,559	24,412	77.4%	87.1%	10,700

*** Data withheld due to low population counts and/or small numbers

Section VII – People Living with Diagnosed HIV by Expanded Demographics

Figure 10 – Population Pyramids of Total People Living with Diagnosed HIV, by Age on December 31, 2018, Sex at Birth, and Race/Ethnicity, Alive on December 31, 2018, and Reported through June 30, 2019

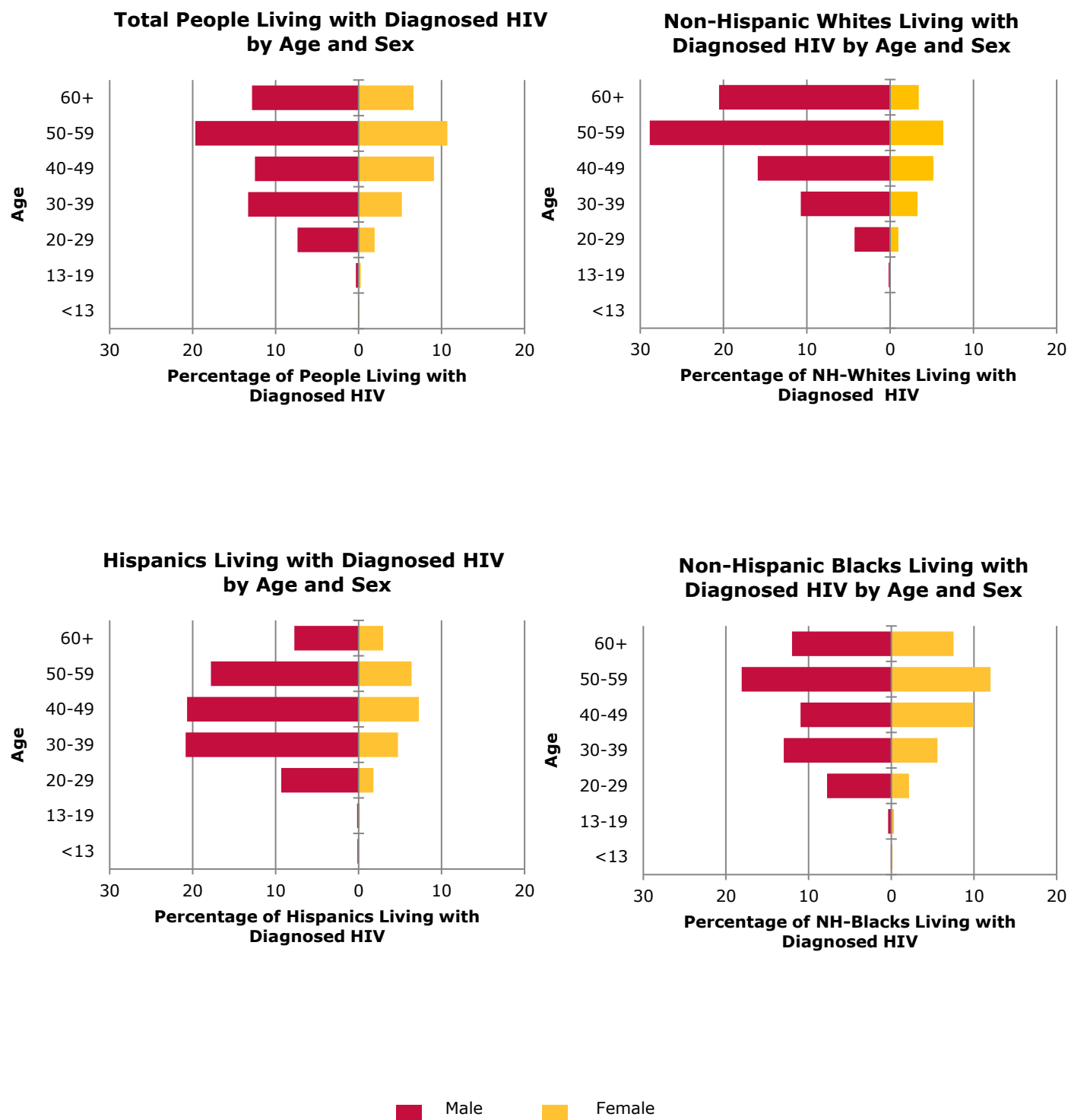


Table 14 – Total Males Living with Diagnosed HIV by Age on December 31, 2018 and Race/Ethnicity, Alive on December 31, 2018, and Reported through June 30, 2019

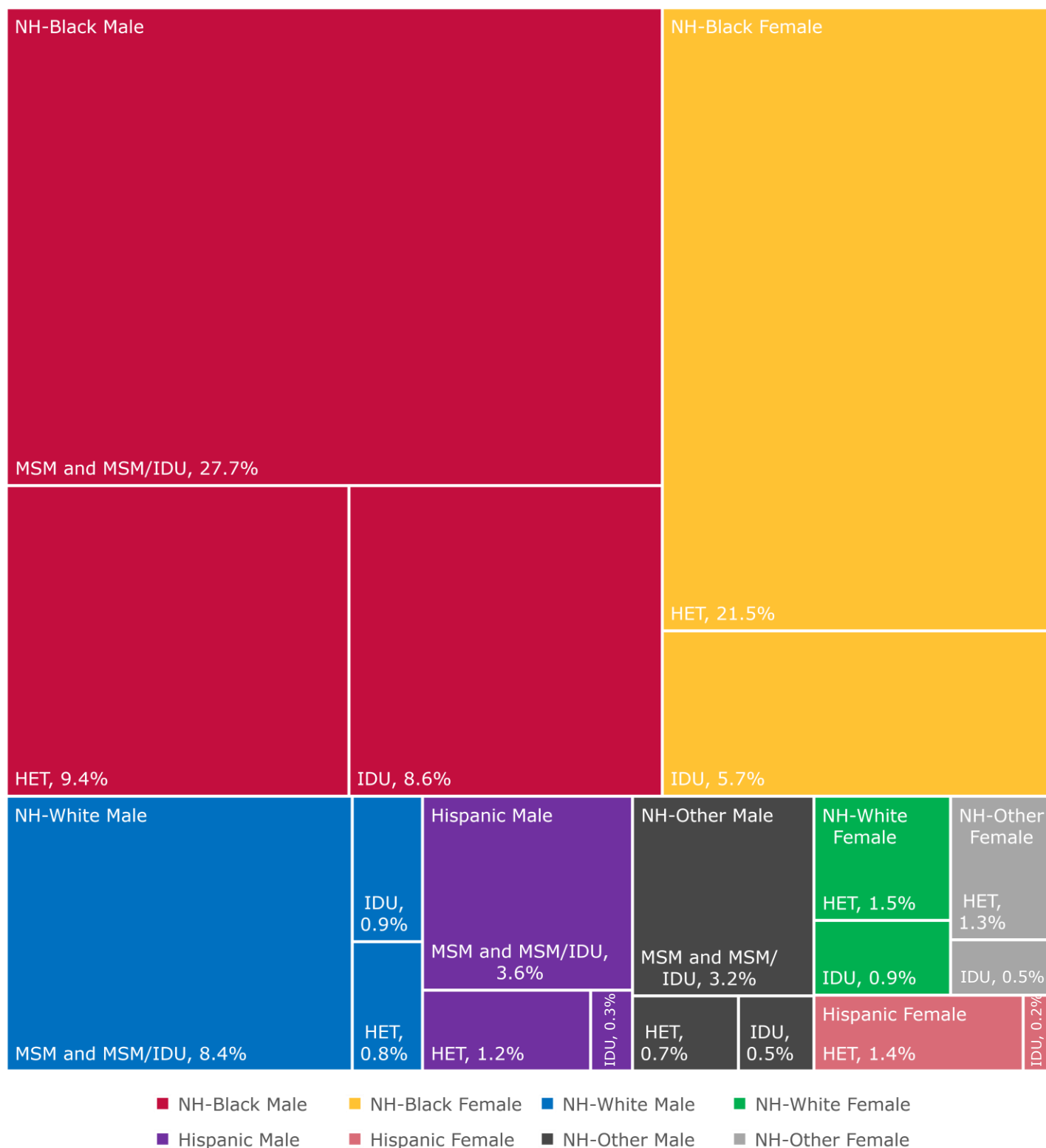
Total Males Living with Diagnosed HIV						
Age on December 31, 2018		Race/Ethnicity				Total Males by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	83,287	148,636	201,193	57,832	490,947
	Number	3	18	3	0	24
	Rate	3.6	12.1	1.5	0.0	4.9
	Ratio (1 in X)	27,762	8,258	67,064	--	20,456
13-19	Population	35,813	84,325	122,035	29,458	271,632
	Number	4	88	7	6	105
	Rate	11.2	104.4	5.7	20.4	38.7
	Ratio (1 in X)	8,953	958	17,434	4,910	2,587
20-29	Population	47,460	130,302	186,768	37,880	402,410
	Number	199	1,828	171	127	2,325
	Rate	419.3	1,402.9	91.6	335.3	577.8
	Ratio (1 in X)	238	71	1,092	298	173
30-39	Population	58,075	115,813	191,684	38,754	404,326
	Number	445	3,057	429	281	4,212
	Rate	766.3	2,639.6	223.8	725.1	1,041.7
	Ratio (1 in X)	131	38	447	138	96
40-49	Population	48,399	108,170	177,291	35,753	369,613
	Number	441	2,577	636	296	3,950
	Rate	911.2	2,382.4	358.7	827.9	1,068.7
	Ratio (1 in X)	110	42	279	121	94
50-59	Population	30,188	117,372	231,551	29,324	408,435
	Number	380	4,251	1,154	434	6,219
	Rate	1,258.8	3,621.8	498.4	1,480.0	1,522.6
	Ratio (1 in X)	79	28	201	68	66
60+	Population	22,445	135,818	384,266	39,029	581,558
	Number	165	2,820	821	253	4,059
	Rate	735.1	2,076.3	213.7	648.2	698.0
	Ratio (1 in X)	136	48	468	154	143
Total Males by Race/Ethnicity	Population	325,667	840,436	1,494,788	268,030	2,928,921
	Number	1,637	14,639	3,221	1,397	20,894
	Rate	502.7	1,741.8	215.5	521.2	713.4
	Ratio (1 in X)	199	57	464	192	140

Table 15 – Total Females Living with Diagnosed HIV by Age on December 31, 2018 and Race/Ethnicity, Alive on December 31, 2018, and Reported through June 30, 2019

		Total Females Living with Diagnosed HIV				
Age on December 31, 2018		Race/Ethnicity				Total Females by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	79,435	144,696	191,618	55,355	471,104
	Number	1	30	4	3	38
	Rate	1.3	20.7	2.1	5.4	8.1
	Ratio (1 in X)	79,435	4,823	47,904	18,452	12,397
13-19	Population	33,715	82,564	116,116	28,880	261,275
	Number	3	77	2	1	83
	Rate	8.9	93.3	1.7	3.5	31.8
	Ratio (1 in X)	11,238	1,072	58,058	28,880	3,148
20-29	Population	42,852	132,458	178,165	39,099	392,574
	Number	38	504	39	33	614
	Rate	88.7	380.5	21.9	84.4	156.4
	Ratio (1 in X)	1,128	263	4,568	1,185	639
30-39	Population	49,156	133,562	191,578	44,958	419,254
	Number	101	1,310	132	105	1,648
	Rate	205.5	980.8	68.9	233.6	393.1
	Ratio (1 in X)	487	102	1,451	428	254
40-49	Population	41,458	128,289	182,299	42,081	394,127
	Number	155	2,344	208	161	2,868
	Rate	373.9	1,827.1	114.1	382.6	727.7
	Ratio (1 in X)	267	55	876	261	137
50-59	Population	28,465	141,039	240,982	34,978	445,464
	Number	136	2,819	255	175	3,385
	Rate	477.8	1,998.7	105.8	500.3	759.9
	Ratio (1 in X)	209	50	945	200	132
60+	Population	27,685	198,283	455,266	48,765	729,999
	Number	63	1,769	138	121	2,091
	Rate	227.6	892.2	30.3	248.1	286.4
	Ratio (1 in X)	439	112	3,299	403	349
Total Females by Race/Ethnicity	Population	302,766	960,891	1,556,024	294,116	3,113,797
	Number	497	8,853	778	599	10,727
	Rate	164.2	921.3	50.0	203.7	344.5
	Ratio (1 in X)	609	109	2,000	491	290

Section VIII – HIV Exposure Category

Figure 11 – Proportion of Total People Aged 13+ Living with Diagnosed HIV, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2018, Reported through June 30, 2019



Note. Other exposure category and perinatal transmission not shown (<2 percent). Multiple imputation was used to estimate and adjust for missing transmission category.

Table 16 – Reported HIV Diagnoses, Among People Aged 13+ During 2018, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2019

Estimated or Reported Exposure Category	No.	% of Total	Reported HIV Diagnoses Among People Aged 13+				
			Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	% with Test	Median Count
Male-to-male Sexual Contact (MSM)	532	53.6%	80.7%	88.7%	17.5%	92.4%	398
Injection Drug Use (IDU)	66	6.6%	71.3%	81.3%	21.5%	91.2%	347
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	12	1.2%	***	***	***	***	***
Heterosexual Contact (HET)	383	38.5%	86.8%	93.2%	26.3%	94.7%	394
Perinatal Transmission	1	0.1%	***	***	***	***	***
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	994	100.0%	82.5%	89.9%	21.2%	93.1%	396

Male Estimated or Reported Exposure Category							
Male-to-male Sexual Contact (MSM)	532	74.4%	80.7%	88.7%	17.5%	92.4%	398
Injection Drug Use (IDU)	42	5.8%	78.2%	82.5%	26.1%	89.0%	269
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	12	1.7%	84.2%	87.5%	***	80.0%	526
Heterosexual Contact (HET)	130	18.1%	87.4%	93.8%	***	95.8%	282
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	716	100.0%	81.8%	89.2%	21.9%	92.6%	385

Female Estimated or Reported Exposure Category							
Injection Drug Use (IDU)	24	8.7%	***	***	***	***	***
Heterosexual Contact (HET)	253	91.0%	86.5%	92.9%	20.0%	94.1%	438
Perinatal Transmission	1	0.4%	***	***	***	***	***
Other Exposure	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	278	100.0%	84.2%	91.7%	19.4%	94.2%	452

Note. Data for 2018 are preliminary because they are based on a 6-month reporting delay and should not be used to assess trends. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Expansive People Supplement.

*** Data withheld due to low population counts and/or small numbers

Table 17 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2019

Estimated or Reported Exposure Category	Total People Aged 13+ Living with Diagnosed HIV	
	No.	% of Total
Male-to-male Sexual Contact (MSM)	12,391	39.3%
Injection Drug Use (IDU)	5,578	17.7%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	1,162	3.7%
Heterosexual Contact (HET)	11,910	37.7%
Perinatal Transmission	393	1.2%
Other Exposure	44	0.1%
No Estimated or Reported Exposure	81	0.3%
Total	31,559	100.0%
Male Estimated or Reported Exposure Category		
Male-to-male Sexual Contact (MSM)	12,391	59.4%
Injection Drug Use (IDU)	3,267	15.7%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	1,162	5.6%
Heterosexual Contact (HET)	3,814	18.3%
Perinatal Transmission	168	0.8%
Other Exposure	24	0.1%
No Estimated or Reported Exposure	44	0.2%
Total	20,870	100.0%
Female Estimated or Reported Exposure Category		
Injection Drug Use (IDU)	2,311	21.6%
Heterosexual Contact (HET)	8,096	75.7%
Perinatal Transmission	225	2.1%
Other Exposure	20	0.2%
No Estimated or Reported Exposure	37	0.3%
Total	10,689	100.0%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Expansive People Supplement.

Table 18 – People Aged 13+ Living with Diagnosed HIV by Estimated or Reported Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2018, and Reported through June 30, 2019

Estimated or Reported Exposure Category	Total People Aged 13+ Living with Diagnosed HIV					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total	No.	% of Total	No.	% of Total
Male-to-male Sexual Contact (MSM)	1,077	50.6%	7,930	33.8%	2,465	61.7%
Injection Drug Use (IDU)	158	7.4%	4,511	19.2%	574	14.4%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	65	3.1%	815	3.5%	190	4.8%
Heterosexual Contact (HET)	807	37.9%	9,759	41.6%	723	18.1%
Perinatal Transmission	14	0.7%	343	1.5%	17	0.4%
Other Exposure	2	0.1%	21	0.1%	17	0.4%
No Estimated or Reported Exposure	6	0.3%	66	0.3%	6	0.2%
Total	2,129	100.0%	23,445	100.0%	3,992	100.0%
Male Estimated or Reported Exposure Category						
Male-to-male Sexual Contact (MSM)	1,077	65.9%	7,930	54.2%	2,465	76.6%
Injection Drug Use (IDU)	100	6.2%	2,722	18.6%	282	8.8%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	65	4.0%	815	5.6%	190	5.9%
Heterosexual Contact (HET)	379	23.2%	2,971	20.3%	256	8.0%
Perinatal Transmission	7	0.4%	142	1.0%	8	0.2%
Other Exposure	2	0.1%	6	0.0%	14	0.4%
No Estimated or Reported Exposure	3	0.2%	35	0.2%	3	0.1%
Total	1,633	100.0%	14,621	100.0%	3,218	100.0%
Female Estimated or Reported Exposure Category						
Injection Drug Use (IDU)	58	11.7%	1,788	20.3%	292	37.7%
Heterosexual Contact (HET)	428	86.3%	6,788	76.9%	467	60.3%
Perinatal Transmission	7	1.4%	201	2.3%	9	1.2%
Other Exposure	0	0.0%	15	0.2%	3	0.4%
No Estimated or Reported Exposure	3	0.6%	31	0.4%	3	0.4%
Total	496	100.0%	8,823	100.0%	774	100.0%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Gender Expansive People Supplement.

Table 19 – CD4 Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Estimated or Reported Exposure Category, Reported through June 30, 2019

Estimated or Reported Exposure Category	Total People Aged 13+ with Living Diagnosed HIV							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male-to-male Sexual Contact (MSM)	12,391	9,415	76.0%	624	6.7%	11.0%	16.4%	65.9%
Injection Drug Use (IDU)	5,578	4,296	77.0%	558	13.1%	14.4%	15.8%	56.7%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	1,162	913	78.5%	553	10.6%	12.9%	19.1%	57.3%
Heterosexual Contact (HET)	11,910	9,024	75.8%	620	7.9%	11.9%	15.9%	64.3%
Perinatal Transmission	393	296	75.3%	528	17.9%	11.8%	16.9%	53.4%
Other Exposure	44	35	79.5%	482	11.4%	22.9%	20.0%	45.7%
No Estimated or Reported Exposure	81	53	65.4%	505	18.9%	15.1%	15.1%	50.9%
Total	31,559	24,032	76.1%	608	8.6%	12.0%	16.2%	63.1%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment.

Table 20 – Viral Load Test Results During 2018 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2018, by Estimated or Reported Exposure Category, Reported through June 30, 2019

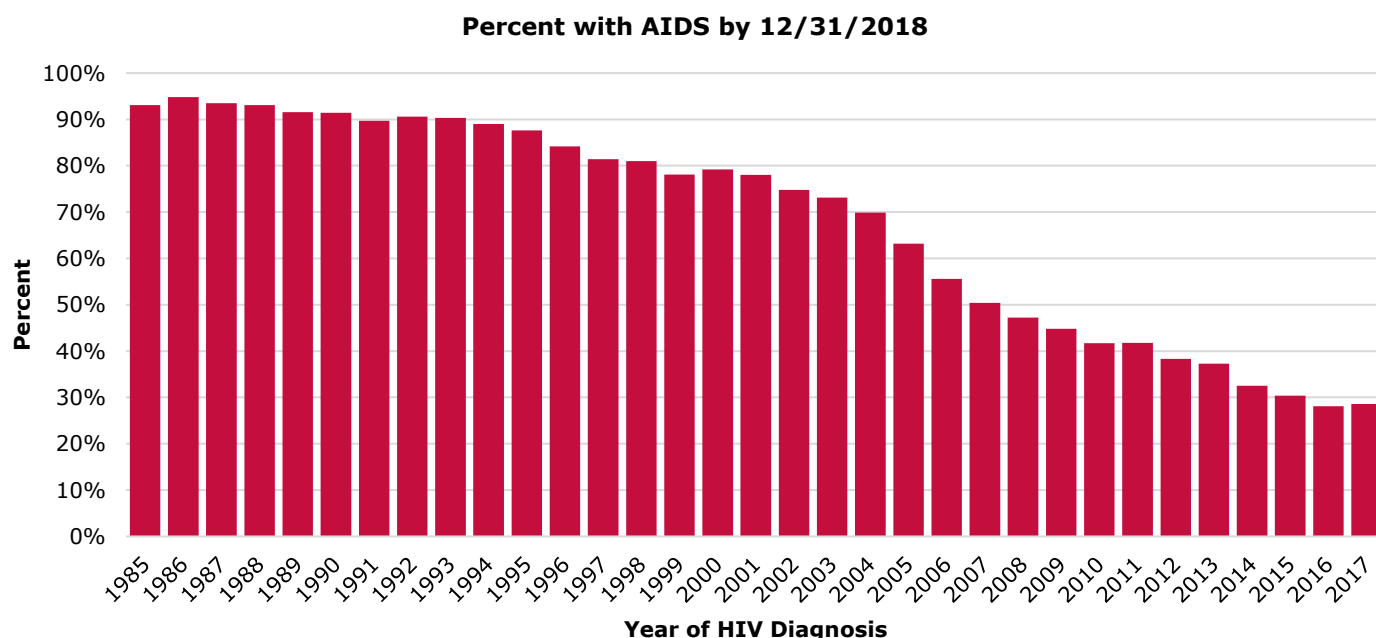
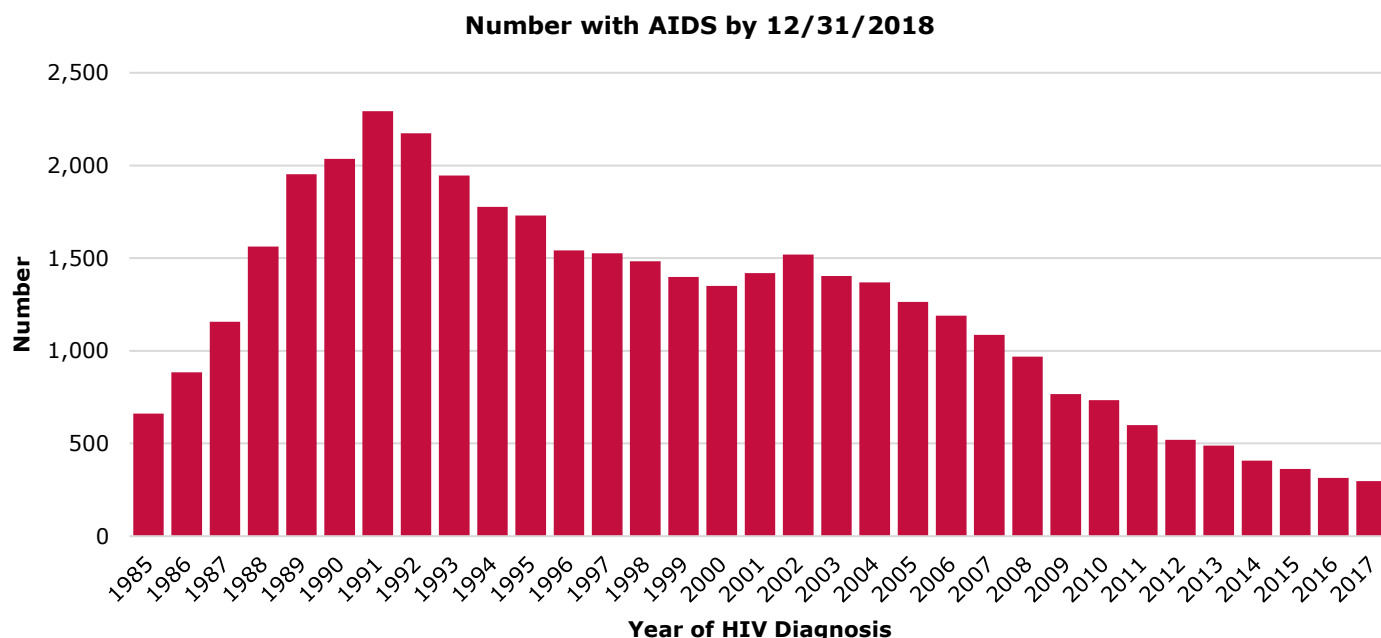
Estimated or Reported Exposure Category	Total People Aged 13+ with Living Diagnosed HIV					
	No.	Recent Viral Load Test Results				Median Unsuppressed
		No. with Test	% with Test	% Suppressed		
Male-to-male Sexual Contact (MSM)	12,391	9,574	77.3%	88.0%		13,100
Injection Drug Use (IDU)	5,578	4,376	78.4%	85.3%		12,000
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	1,162	919	79.1%	87.2%		6,890
Heterosexual Contact (HET)	11,910	9,143	76.8%	87.7%		8,540
Perinatal Transmission	393	310	78.9%	71.6%		12,700
Other Exposure	44	35	79.5%	94.3%		5,780
No Estimated or Reported Exposure	81	55	67.9%	58.2%		7,630
Total	31,559	24,412	77.4%	87.1%		10,700

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median unsuppressed is weighted based on statistical adjustment.

Section IX – Disease Progression and Mortality

Figure 12 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2017, Reported through June 30, 2019

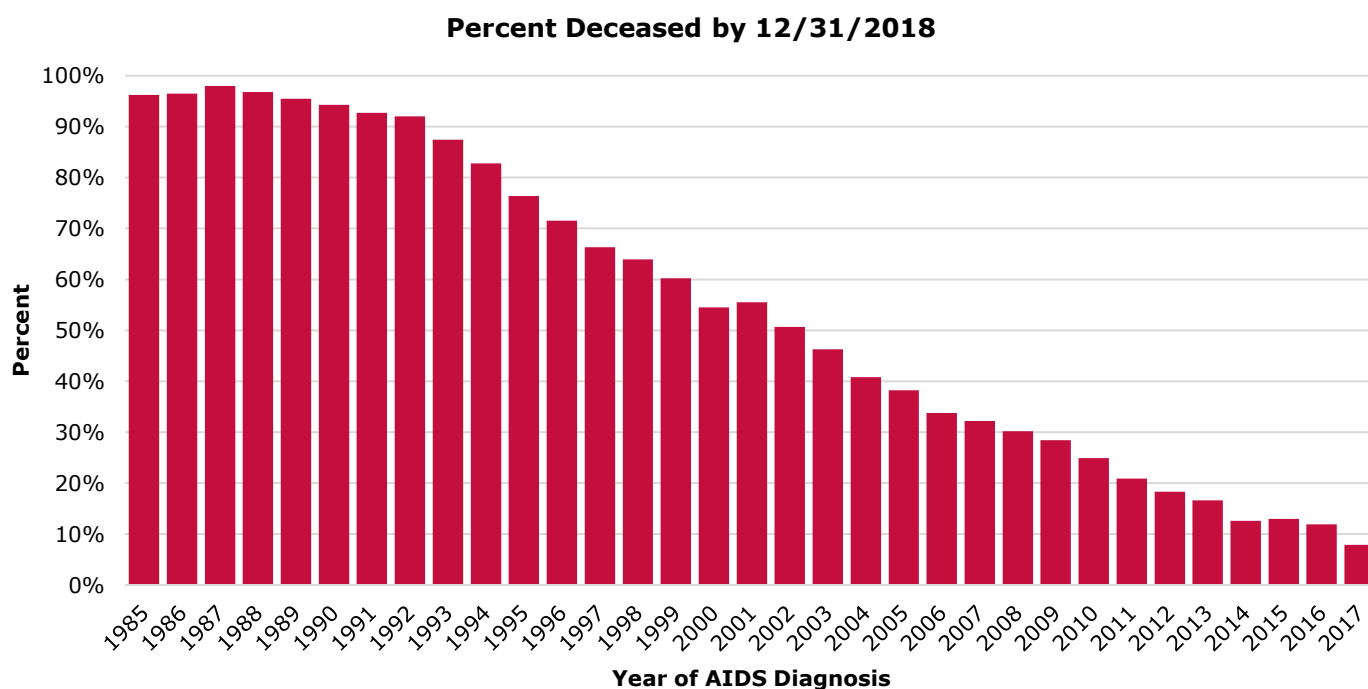
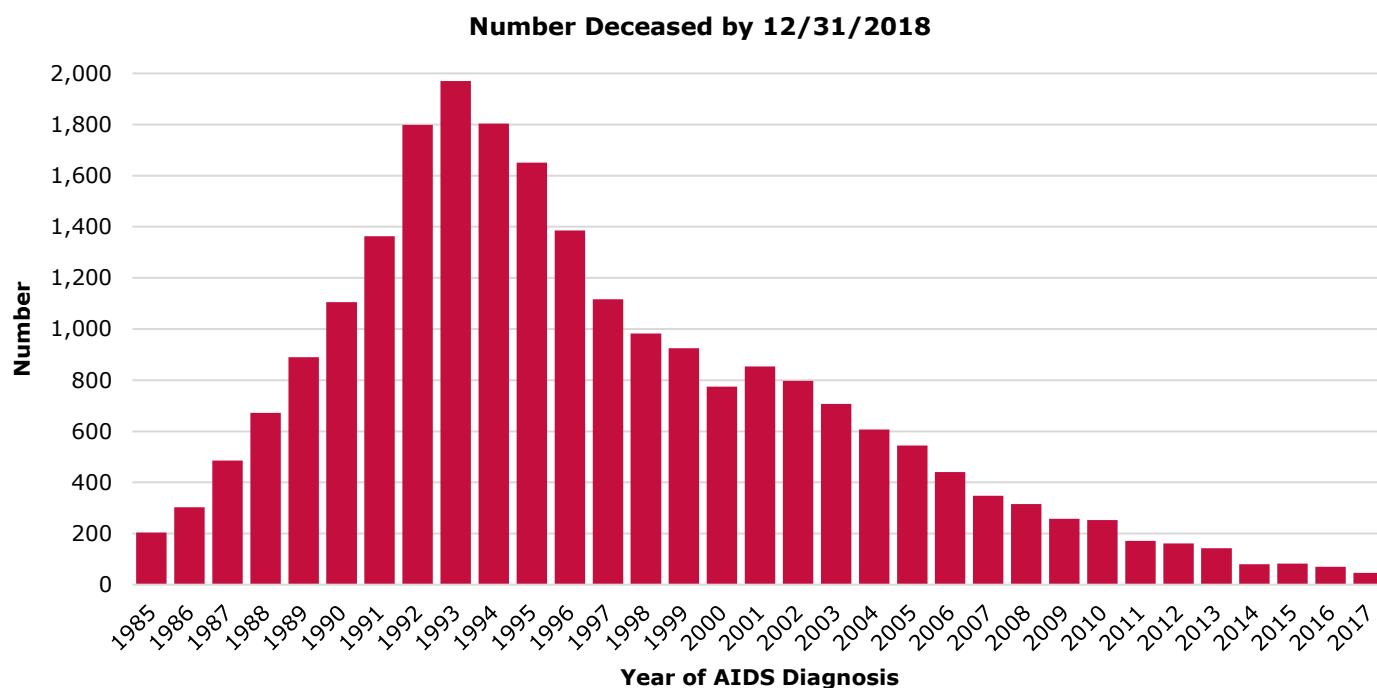
Number of People Aged 13+ with Diagnosed HIV, Age 13+ at HIV Diagnosis, (Reported HIV Diagnoses Among People Aged 13+), Number of People Aged 13+ with Diagnosed HIV with an AIDS Diagnosis by December 31, 2018 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Reported HIV Diagnoses with a Reported AIDS Diagnosis Among People Aged 13+ by December 31, 2018, the Average Years from HIV Diagnosis to AIDS Diagnosis for People with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported HIV Diagnoses with a Reported AIDS Diagnosis Among People Aged 13+ at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2017, Reported through June 30, 2019



Reported HIV Diagnoses Among People Aged 13+									
Year of HIV Diagnosis	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis				
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years	
<1985	378	364	96.3%	7.3	37.6%	37.6%	40.7%	65.9%	
1985	710	661	93.1%	6.3	31.1%	32.7%	40.7%	75.4%	
1986	932	884	94.8%	5.3	36.3%	37.3%	49.0%	82.2%	
1987	1,236	1,156	93.5%	4.4	38.2%	40.7%	57.6%	83.7%	
1988	1,678	1,562	93.1%	3.8	40.6%	44.6%	65.7%	86.0%	
1989	2,131	1,952	91.6%	3.5	41.2%	46.0%	69.0%	84.9%	
1990	2,228	2,036	91.4%	3.2	44.0%	51.2%	72.5%	85.3%	
1991	2,555	2,293	89.7%	2.8	46.6%	55.6%	73.9%	83.9%	
1992	2,400	2,174	90.6%	2.8	49.6%	58.3%	74.9%	83.8%	
1993	2,154	1,946	90.3%	2.2	55.6%	63.8%	77.3%	85.8%	
1994	1,996	1,777	89.0%	2.3	57.2%	64.4%	75.5%	83.7%	
1995	1,975	1,730	87.6%	2.3	58.1%	63.8%	72.7%	82.4%	
1996	1,831	1,541	84.2%	2.0	59.1%	63.2%	70.9%	79.7%	
1997	1,874	1,526	81.4%	2.2	55.5%	60.1%	68.4%	76.6%	
1998	1,831	1,483	81.0%	2.1	56.1%	60.0%	67.9%	75.8%	
1999	1,791	1,399	78.1%	1.9	56.3%	60.3%	67.6%	74.0%	
2000	1,705	1,350	79.2%	1.9	55.1%	58.9%	68.0%	75.4%	
2001	1,819	1,419	78.0%	1.8	56.1%	59.6%	68.4%	74.1%	
2002	2,033	1,520	74.8%	1.8	54.2%	57.9%	64.9%	70.9%	
2003	1,921	1,404	73.1%	1.7	53.8%	57.2%	63.0%	69.9%	
2004	1,959	1,370	69.9%	1.8	50.4%	53.8%	59.6%	66.9%	
2005	1,999	1,264	63.2%	1.7	45.9%	48.8%	54.8%	61.1%	
2006	2,139	1,190	55.6%	1.8	38.3%	40.7%	47.6%	53.8%	
2007	2,155	1,086	50.4%	2.0	32.3%	34.9%	41.9%	48.7%	
2008	2,051	968	47.2%	1.7	31.1%	34.2%	41.4%	46.6%	
2009	1,708	766	44.8%	1.7	29.5%	32.1%	38.9%	--	
2010	1,756	733	41.7%	1.5	27.8%	30.6%	36.8%	--	
2011	1,432	599	41.8%	1.2	30.5%	34.0%	38.1%	--	
2012	1,354	519	38.3%	1.0	29.4%	32.0%	36.7%	--	
2013	1,312	489	37.3%	0.7	31.3%	32.8%	36.7%	--	
2014	1,254	408	32.5%	0.7	25.8%	28.3%	--	--	
2015	1,196	363	30.4%	0.5	25.8%	28.1%	--	--	
2016	1,117	314	28.1%	0.4	24.6%	26.9%	--	--	
2017	1,039	297	28.6%	0.2	27.0%	--	--	--	
Total	57,649	40,543	70.3%	2.4	43.9%	48.1%	57.8%	66.3%	

**Figure 13 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2017,
Reported through June 30, 2019**

Number of People Aged 13+ with Diagnosed HIV, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by December 31, 2017 (Reported AIDS Diagnoses), Number of Reported AIDS Diagnosis Among People Aged 13+ Reported to Have Died of Any Cause by December 31, 2018 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) Among People Aged 13+ by December 31, 2018, the Average Years from AIDS Diagnosis to Death for People that have Died, and the Percent by Year of AIDS Diagnosis of Reported AIDS Diagnoses Among People Aged 13+ Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2017, Reported through June 30, 2019



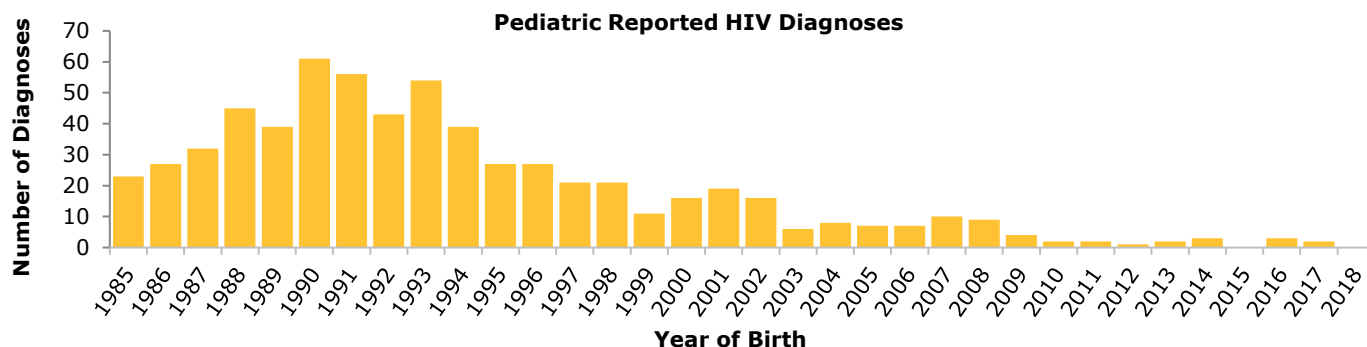
Year of AIDS Diagnosis	Reported AIDS Diagnoses Among People Aged 13+							
	No.	Reported AIDS Deaths		Mean Years from AIDS to Death	Percent Alive by Years After AIDS Diagnosis			
		No.	% Deceased		1 Year	2 Years	5 Years	10 Years
<1985	145	140	96.6%	1.7	42.8%	20.7%	10.3%	7.6%
1985	212	204	96.2%	1.7	42.5%	19.8%	11.3%	6.1%
1986	314	303	96.5%	2.2	51.3%	33.1%	13.1%	8.3%
1987	495	485	98.0%	2.2	57.2%	31.7%	11.1%	5.9%
1988	694	672	96.8%	2.3	60.7%	38.2%	14.0%	6.5%
1989	932	890	95.5%	2.9	64.1%	43.7%	17.9%	9.8%
1990	1,172	1,105	94.3%	3.0	66.6%	47.9%	21.2%	12.1%
1991	1,470	1,363	92.7%	2.9	68.4%	48.2%	19.0%	12.9%
1992	1,955	1,799	92.0%	3.3	71.8%	50.5%	22.3%	16.3%
1993	2,255	1,970	87.4%	3.9	77.3%	56.6%	33.3%	22.5%
1994	2,178	1,804	82.8%	4.1	78.0%	58.9%	39.8%	26.7%
1995	2,160	1,651	76.4%	5.2	78.8%	67.6%	51.8%	37.6%
1996	1,938	1,386	71.5%	5.7	82.2%	75.6%	60.2%	43.3%
1997	1,685	1,117	66.3%	6.0	85.4%	78.3%	63.7%	48.6%
1998	1,537	982	63.9%	5.9	87.0%	80.8%	66.2%	49.5%
1999	1,536	925	60.2%	5.7	87.4%	81.0%	66.8%	52.0%
2000	1,421	775	54.5%	5.6	88.2%	83.6%	69.7%	56.4%
2001	1,538	854	55.5%	5.1	86.6%	79.6%	66.7%	55.1%
2002	1,572	797	50.7%	5.3	88.8%	83.8%	71.8%	59.8%
2003	1,527	707	46.3%	4.5	85.7%	80.4%	70.7%	61.2%
2004	1,489	607	40.8%	4.6	88.9%	84.6%	75.2%	65.9%
2005	1,424	544	38.2%	4.5	89.3%	85.3%	76.5%	67.9%
2006	1,300	440	33.8%	3.9	89.6%	85.8%	77.7%	68.8%
2007	1,081	348	32.2%	3.8	89.4%	86.4%	79.6%	69.3%
2008	1,042	315	30.2%	3.2	89.3%	85.3%	78.4%	70.3%
2009	909	258	28.4%	3.2	90.3%	87.2%	79.8%	--
2010	1,011	252	24.9%	3.1	91.7%	88.9%	82.9%	--
2011	818	171	20.9%	2.8	93.9%	91.0%	83.0%	--
2012	882	161	18.3%	2.1	91.5%	89.7%	83.9%	--
2013	857	142	16.6%	1.8	92.8%	89.4%	84.2%	--
2014	637	80	12.6%	1.0	92.5%	89.6%	--	--
2015	630	82	13.0%	1.0	91.9%	89.7%	--	--
2016	589	70	11.9%	0.5	90.7%	88.3%	--	--
2017*	581	46	7.9%	0.6	94.3%	--	--	--
Total	39,986	23,445	58.6%	4.1	82.5%	72.8%	58.4%	48.7%

*2017 AIDS deaths are preliminary

Section X – Pediatrics

Figure 14 – Trends in Reported HIV Diagnoses Among People Aged <13, 1985-2018, Reported through June 30, 2019

Number of Pediatric HIV Diagnoses, Age <13 at HIV Diagnosis, (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Children with Diagnosed HIV, Age <13 at HIV Diagnosis, and Not Reported to have Died as of December 31st of Each Year (Total Living Pediatric Diagnoses) from 1985 through 2018, as Reported by Name through June 30, 2019



Year	Pediatric Reported HIV Diagnoses				Total Living Pediatric Diagnoses Alive on December 31 st of Each Year
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	
<1985	54	4	1	0	--
1985	23	13	8	2	17
1986	27	15	6	4	28
1987	32	21	14	5	44
1988	45	28	19	6	66
1989	39	37	25	8	95
1990	61	55	23	9	141
1991	56	57	35	12	186
1992	43	62	39	12	234
1993	54	55	36	16	272
1994	39	41	29	15	297
1995	27	29	24	20	304
1996	27	36	26	19	319
1997	21	18	12	7	330
1998	21	20	12	6	343
1999	11	24	13	5	360
2000	16	16	5	1	375
2001	19	14	11	5	384
2002	16	15	8	4	395
2003	6	6	4	6	393
2004	8	11	4	5	400
2005	7	8	5	1	407
2006	7	15	6	4	419
2007	10	43	9	5	457
2008	9	15	8	3	471
2009	4	10	5	2	480
2010	2	3	8	6	479
2011	2	4	7	4	481
2012	1	3	3	4	483
2013	2	3	11	2	485
2014	3	6	4	1	491
2015	0	0	8	3	489
2016	3	4	7	4	489
2017	2	3	3	3	491
2018	0	3	9	1	494
Total	697	697	447	210	--

Table 21 – People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2018, by Jurisdiction of Current Residence, Reported through June 30, 2019

Jurisdiction of Current Residence	Total People Aged <13 Living with Diagnosed HIV	
	No.	% of Total
Allegany	2	3.2%
Anne Arundel	1	1.6%
Baltimore City	13	21.0%
Baltimore	7	11.3%
Calvert	0	0.0%
Caroline	0	0.0%
Carroll	2	3.2%
Cecil	3	4.8%
Charles	4	6.5%
Dorchester	1	1.6%
Frederick	1	1.6%
Garrett	0	0.0%
Harford	2	3.2%
Howard	1	1.6%
Kent	0	0.0%
Montgomery	9	14.5%
Prince George's	15	24.2%
Queen Anne's	0	0.0%
Saint Mary's	0	0.0%
Somerset	0	0.0%
Talbot	0	0.0%
Washington	1	1.6%
Wicomico	0	0.0%
Worcester	0	0.0%
Corrections	0	0.0%
Total	62	100.0%

Table 22 –People Aged <13 Living with Diagnosed HIV, Alive on December 31, 2018, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2019

Demographic Characteristic	Total People Aged <13 Living with Diagnosed HIV	
	No.	% of Total
Sex at Birth		
Male	24	38.7%
Female	38	61.3%
Race/Ethnicity		
Hispanic	4	6.5%
Non-Hispanic	58	93.5%
American Indian/Alaska Native, only	0	0.0%
Asian, only	1	1.6%
Black, only	48	77.4%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	7	11.3%
Multiracial/Other	2	3.2%
Total	62	100.0%

Table 23 – Perinatal HIV Transmissions by Year of Birth, 2009-2018

Year of Birth	Live Births	Women of Childbearing Age Living with Diagnosed HIV	Reported Perinatal HIV Exposures	Confirmed Perinatal HIV Transmission		
	No.	No.	No.	No.	%	Rate
2009	74,999	6,905	174	3	1.7%	4.0
2010	73,783	6,645	178	4	2.2%	5.4
2011	73,052	6,321	174	2	1.1%	2.7
2012	72,751	6,625	183	1	0.5%	1.4
2013	71,806	6,696	163	1	0.6%	1.4
2014	73,588	6,265	202	3	1.5%	4.1
2015	73,544	6,390	152	0	0.0%	0.0
2016	73,073	6,011	185	3	1.6%	4.1
2017	71,589	5,655	169	1	0.6%	1.4
2018	--	5,521	161	0	0.0%	--
Total	658,185	63,034	1,741	18	1.0%	2.7

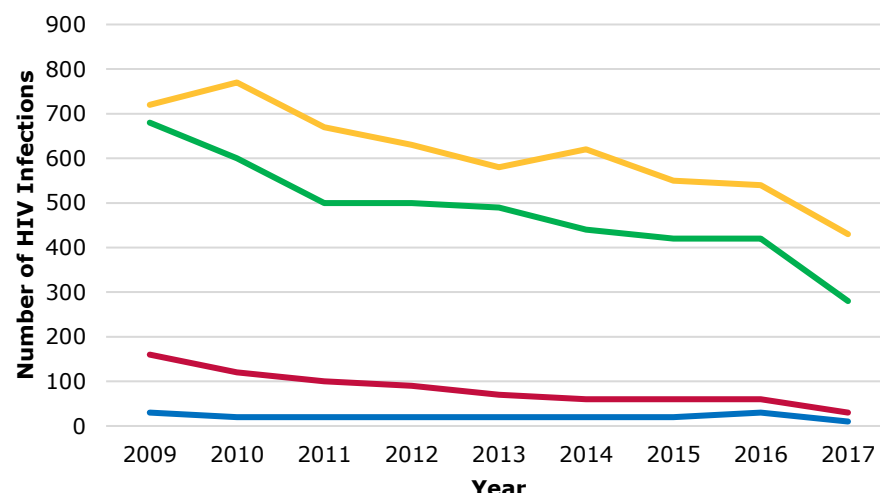
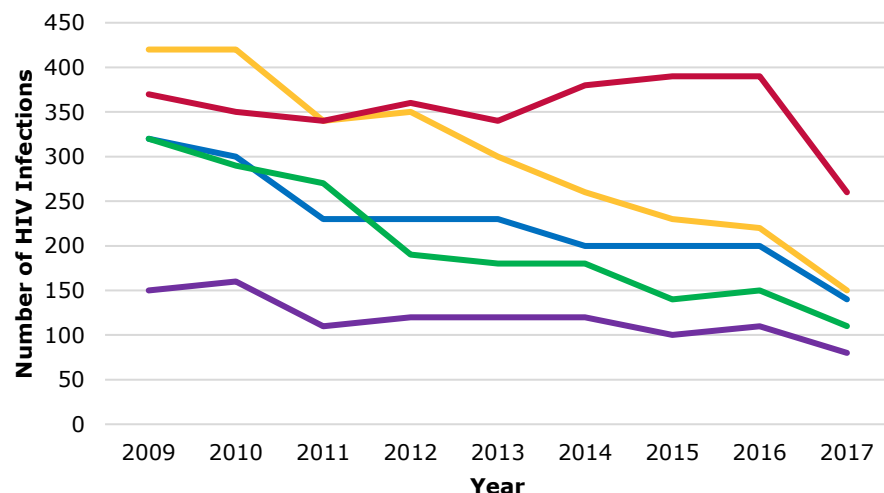
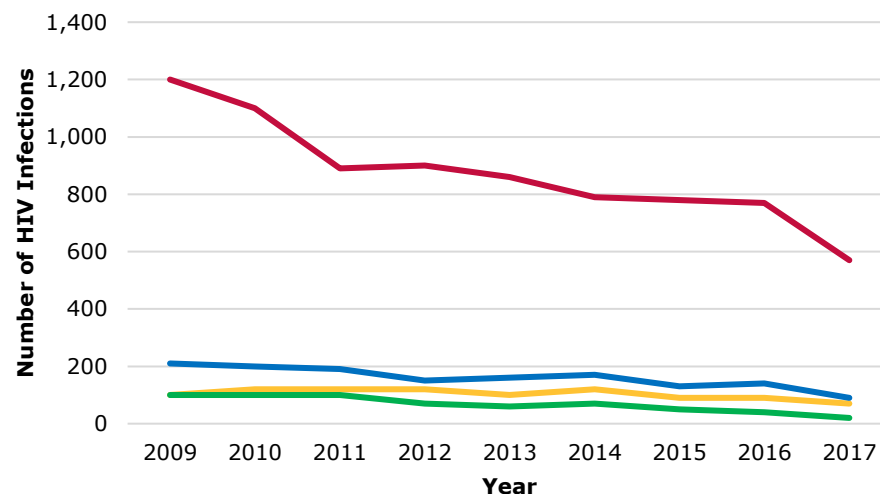
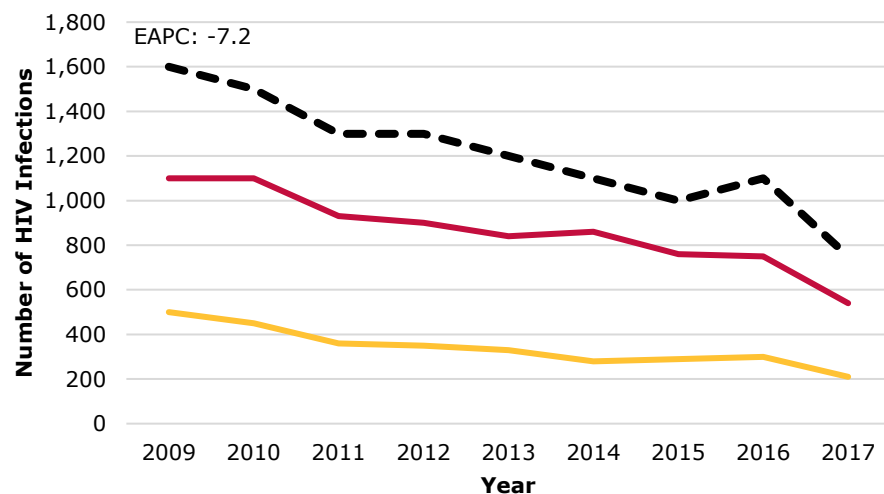
Live births from Maryland Vital Statistics Annual Report 2018.

Women of childbearing age (ages 13-49) with diagnosed HIV and perinatal HIV exposures from Maryland Enhanced HIV/AIDS Reporting System, reported through June 30, 2019.

Perinatal HIV exposures and transmissions are based on residence at birth.

Section XI – Incidence and Prevalence Estimates

Figure 15 – Trends in Estimated Incidence and Estimated Annual Percent Change, Among People Aged 13+ Living with HIV, 2010-2017, by Sex at Birth, Age, Race/Ethnicity, and Exposure Category



Demographic	Estimated Incidence Among People Aged 13+									Estimated Annual Percent Change (EAPC)
	2009	2010	2011	2012	2013	2014	2015	2016	2017	
Sex at Birth										
Male	1,100	1,100	930	900	840	860	760	750	540	-6.9%
Female	500	450	360	350	330	280	290	300	210	-8.6%
Age at Diagnosis										
13-24	420	420	340	350	300	260	230	220	150	-10.7%
25-34	370	350	340	360	340	380	390	390	260	-0.9%
35-44	320	300	230	230	230	200	200	200	140	-7.9%
45-54	320	290	270	190	180	180	140	150	110	-12.0%
55+	150	160	110	120	120	120	100	110	80	-6.1%
Race/Ethnicity										
American Indian/ Alaska Native	0	0	0	0	0	0	0	0	0	--
Asian	10	20	20	10	10	20	10	10	0	-10.5%
Black/African American	1,200	1,100	890	900	860	790	780	770	570	-10.5%
Hispanic/Latino	100	120	120	120	100	120	90	90	70	-4.3%
Native Hawaiian/ Other Pacific Islander	0	0	0	0	0	0	0	0	0	--
White	210	200	190	150	160	170	130	140	90	-4.3%
Multiple races	90	80	80	60	50	50	40	30	20	-14.9%
Exposure Category										
Male-to-male sexual contact (MSM)	720	770	670	630	580	620	550	540	430	-5.6%
Injection drug use (IDU)	160	120	100	90	70	60	60	60	30	-15.5%
Male	90	60	50	60	40	20	40	30	20	-15.0%
Female	70	60	40	30	30	40	20	30	10	-15.6%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	30	20	20	20	20	20	20	30	10	-3.9%
Heterosexual contact (HET)	680	600	500	500	490	440	420	420	280	-7.9%
Male	250	210	190	190	190	190	150	150	80	-8.5%
Female	430	390	310	310	300	240	270	270	200	-7.6%
Total	1,600	1,500	1,300	1,300	1,200	1,100	1,000	1,100	750	-7.2%

Note. Data represent subgroup estimates, therefore, values may not sum to column total. Estimates are based on persons whose last reported address since diagnosis was in Maryland. Age groups are consistent with the national standard presentation of HIV incidence estimates by age and are unavailable broken down by 10-year age groups.

Table 24 – Estimated Incidence, Prevalence, and Undiagnosed Among People Aged 13+ Living with HIV in 2018, by Sex at Birth, Age, Race/Ethnicity, and Exposure Category

Demographic	2017 Estimates of People Aged 13+ Living with HIV						Estimated Mean Number of Years Infected at Diagnosis
	Incidence		Prevalence		Undiagnosed		
	No.	Rate	No.	Rate	No.	Percent	
Sex at Birth							
Male	540	22.2	25,300	1,040.2	3,200	12.8%	6.8
Female	210	8.0	12,300	468.8	1,100	9.3%	6.1
Age at Diagnosis							
13-24	150	16.6	1,300	137.9	480	38.0%	5.4
25-34	260	31.8	6,500	775.1	1,500	23.2%	7.1
35-44	140	18.8	7,200	946.5	950	13.2%	7.6
45-54	110	13.2	10,700	1,277.9	780	7.2%	6.5
55+	80	4.6	11,900	697.6	660	5.6%	6.3
Race/Ethnicity							
American Indian/Alaska Native	--	--	20	182.3	0	0.0%	12.8
Asian	--	--	280	83.5	50	17.0%	7.9
Black/African American	570	37.9	27,600	1,842.9	3,100	11.1%	6.5
Hispanic/Latino	70	15.1	2,700	603.7	480	17.6%	8.7
Native Hawaiian/Other Pacific Islander	--	--	0	--	0	0.0%	--
White	90	3.3	5,000	188.4	570	11.3%	6.0
Multiple races	20	20.6	2,000	2,142.7	220	11.1%	6.8
Exposure Category							
Male-to-male sexual contact (MSM)	430	--	14,900	--	2,100	14.3%	6.3
Injection drug use (IDU)	30	--	6,800	--	230	3.4%	5.6
Male	20	--	4,100	--	150	3.8%	6.3
Female	10	--	2,700	--	80	2.9%	4.6
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	10	--	1,400	--	70	5.4%	7.1
Heterosexual contact (HET)	280	--	14,500	--	1,900	13.3%	7.2
Male	80	--	4,900	--	860	17.6%	8.7
Female	200	--	9,600	--	1,100	11.1%	6.3
Total	750	--	37,600	--	4,400	11.6%	6.5

Note. Data represent subgroup estimates, therefore, values may not sum to column total. Estimates are based on persons whose last reported address since diagnosis was in Maryland. Age groups are consistent with the national standard presentation of HIV incidence and prevalence estimates by age and are unavailable broken down by 10-year age groups.

Glossary of Terms

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Age on [date]: Age group of people living with diagnosed HIV on the specified date.

Another Gender Identity: All other gender identities or gender expressions.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of people living with diagnosed HIV with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent CD4 test result.

Confirmed Perinatal HIV Transmission: Reported infants born to a woman living with diagnosed HIV, with a confirmed HIV diagnosis and a resident of Maryland at time of birth.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

Estimated Annual Percent Change: Estimated percent change in annual number of incident adult/adolescent HIV infections over time.

Estimated Mean Number of Years Infected at Diagnosis: Estimated duration, in years, of HIV infection before initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent with Test: Percent of reported HIV diagnoses among people aged 13+ with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Gender Expression: People's outward presentation of their gender which may or may not conform to socially defined behaviors and characteristics typically associated with being either masculine or feminine.

Gender Identity: Refers to one's internal understanding of one's own gender, or the gender with which a person identifies.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 3 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Live Births: Infants born alive in the general population.

People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year and not reported to have died as of December 31st of the specified year.

People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis: Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for people living with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median Count: Median CD4 count (cells per microliter), among total people aged 13+ living with diagnosed HIV, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among people aged 13+ living with diagnosed HIV of the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Percent Change: The percent change in number of total people aged 13+ living with diagnosed HIV from residence at diagnosis to current residence.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 3 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Perinatal HIV Transmission Percent: Percent of confirmed perinatal HIV transmissions among reported perinatal HIV exposures by year of birth.

Perinatal HIV Transmission Rate: Number of confirmed perinatal HIV transmissions divided by the number of live births multiplied by 100,000 by year of birth.

Population: Population estimate for July 1, 2018.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2018.

Rate: Number of people living with diagnosed HIV divided by the population and multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 person living with diagnosed HIV in the population, or 1 person living with diagnosed HIV in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported AIDS Diagnoses Among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Reported HIV Diagnoses Among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Reported Perinatal HIV Exposures: Reported infants born to a woman living with diagnosed HIV during the specified year, with a residence of Maryland at time of birth.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Retained in HIV Care: HIV diagnosed with a reported CD4 or viral load test result performed or reported antiretroviral use in the specified year.

Suppressed Viral Load: HIV diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Total People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year not reported to have died as of December 31st of the specified year.

Total People Aged <13 Living with Diagnosed HIV: Reported HIV diagnosis, age less than 13 years at HIV diagnosis and not reported to have died as of December 31st of the specified year.

Total People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of December 31st of the specified year.

Transgender Female: A person whose sex assigned at birth is male but who identify as a woman.

Transgender Male: A person whose sex assigned at birth is female but who identify as a man.

Viral Load With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result.

Women of Childbearing Age Living with Diagnosed HIV: Reported HIV diagnoses among women of childbearing age (13-49 years old).